# SCIENCE

## Author Index to Volume 225 July-September 1984

Abbott, Ursula. See Opsahl, William.
Abelson, Philip H. (editorials): Hemispheric cooperation in science. v225 p1107 14 Sep 84. Indian development trends. v225 p463 3 Aug 84. Spacelab 1. v225 p127 13 July 84. Ackerman, M. See Lemaitre, M.-P. Adler, J. E. See Black, I. B. and Black, I. B. Plasticity of substance

and Black, I. B.: Plasticity of substance
P in mature and aged sympathetic neurons
in culture. v225 p1499–1500 28 Sep 84.
Agardh, Elisabet. See Puro, Donald G.
Ahearne, John F.: Administration of the NRC
(letter), v225 p672 17 Aug 84.
Aleksandrov, Vladimir: "Nuclear winter" studies (letter), v225 p978 7 Sep 84.
Alexander, Nancy J. See Naz, Rajesh K.
Almasi, J. See Benton, E. V.
Alsem, W. H. M. See Luyendijk, T.
Altman, Philip L.: Bob Ormes: an appreciation
(letter), v225 p786 24 Aug 84.

(letter). v225 p786 24 Aug 84. Amara, Susan G. See Rosenfeld, Michael

Anderson, David J. See Reschke, Millard F.
Anderson, Mary Anne. See Gusella, James F.
Anderson, Roger Y.; Nuhfer, Edward B.;
Dean, Walter E.: Sinking of volcanic ash in
uncompacted sediment in Williams Lake,
Washington, 235 p. 505 509 3, 449 8,449

Washington. v225 p505–508 3 Aug 84.

Andresen, R. D.; Boella, G.; Falconi, B.;
Lamb, P.; Manzo, G.; Raymont, J.; Re, S.;
Sims, M. R.; Villa, G.: X-ray gas scintillation
spectrometer experiment. v225 p177–179 13 July 84. Ansari, A. A. See Saxinger, W.

Antoniades, Harry N. See Owen, Albert J. Argade, P. V.; Ching, Y. C.; Rousseau, D. L.: Cytochrome a<sub>3</sub> structure in carbon monoxide-bound cytochrome oxidase. v225 p329-331 20 July 84.

Arnot, David E. See Enea, Vincenzo.

Arya, Suresh K.; Gallo, Robert C.; Hahn, Beatrice H.; Shaw, George M.; Popovic, Mikulas; Salahuddin, S. Zaki; Wong-Staal, Flossie: Homology of genome of AIDS-associated virus with genomes of human Tcell leukemia viruses. v225 p927-930 31 cell leukemia viruses. v225 p927-930 31 Aug 84.

Asavanich, Achara. See Enea, Vincenzo. Asher, Sanford A. and Johnson, Craig R.: Raman spectroscopy of a coal liquid shows that fluorescence interference is minimized with ultraviolet excitation. v225 p311-313

20 July 84. Ashton, Peter: review of Frank N. Meyer, by

Ashton, Peter: review of Frank N. Meyer, by Isabel Shipley Cunningham. v225 p1140—1141 14 Sep 84.
Axelrod, Julius: Neuroscience advances (editorial). v225 p1253 21 Sep 84.
Axler, C. See Montagnier, L. Aydin, Kultegin. See Bringi, V. N.

Baggaley, W. J.: Ionospheric sporadic-E pa-rameters: long-term trends. v225 p830-833

24 Aug 84.

Bailey, Ç. L. See Turell, M. J.

Bajzer, Željko; Pavelić, Krešimir; Vuk-Pavlović, Stanimir: Growth self-incitement in mu-

rine melanoma B16: a phenomenological model. v225 p930-932 31 Aug 84.

model. V225 p930–932 31 Aug 84.
Baker, Victor R.: review of *Geomorphology of Europe*, edited by Clifford Embleton. v225 p161–162 13 July 84.
Bakun, W. H.; Clark, M. M.; Cockerham, R. S.; Elisworth, W. L.; Lindh, A. G.; Prescott, W. H.; Shakal, A. F.; Spudich, P.: The 1984 Morgan Hill, California, earthquake. v225

p288-291 20 July 84. Banks, P. M. See Obayashi, Tatsuzo. Barbacid, Mariano: Bacterial contamination of human tumor samples (letter), v225 p670

17 Aug 84. Baric, Ralph S. See Olmsted, Robert A. Barnes, Clifford L. See Hyman, Bradley T. Barnwell, John. See McCutchan, Thomas

Barondes, Samuel H.: Soluble lectins (letter). v225 p568 10 Aug 84.

Barré-Sinoussi, F. See Feorino, P. M. See also Kalyanaraman, V. S. See also Montagnier, L. See also Klatzmann, David.

Bassett, William A. See Gold, Jon S.

Bastiani, Michael J. See Goodman, Corey S.

Baum, Robert J.: review of The Culture of Technology, by Arnold Pacey. v225 p1015 7 Sep 84

Beaujean, R.; Schmidt, M.; Enge, W.; Sieg-mon, G.; Krause, J.; Fischer, E.: Isotopic stack: measurement of heavy cosmic rays. v225 p193-195 13 July 84.

Beaujean, R. See Bücker, H. Beck, Charles B. See Wight, David C. Beer, J. See Bücker, H. Beghin, C.; Lebreton, J. P.; Maehlum, B. N.; Troim, J.; Ingsoy, P.; Mīchau, J. L.: Phenomena induced by charged particle beams. v225 p188-191 13 July 84. Begleiter, Henri; Porjesz, Bernice; Bihari, Ber-

nard; Kissin, Benjamin: Event-related brain potentials in boys at risk for alcoholism. v225 p1493-1496 28 Sep 84.

Benson, A. See Ross, H. See also von Baum-

garten, R. Benton, E. V.; Almasi, J.; Cassou, R.; Frank, A.; Henke, R. P.; Rowe, V.; Parnell, T. A.; Schopper, E.: Radiation measurements aboard Spacelab 1. v225 p224-226 13 July

Berge, Glenn L. See Jaffe, Walter J. Bergeron, C. See Seeman, P. Berggren, W. A. See Malmgren, Björn A. Berkowitz, Kenneth P.: Patents and research

freedom (letter). v225 p366 27 July 84.

Bernard, Gary D.: review of *Photoreception*and *Vision in Invertebrates*, edited by M. A.

Ali. v225 p827–828 24 Aug 84.

Bertaux, J. L.; Goutail, F.; Kockarts, G.: Observations of Lyman-α emissions of hydrogen and deuterium. v225 p174-176 13 July 84.

Berthoz, A. See von Baumgarten, R. Besson, J. See Lemaitre, M.-P. Biggar, R. See Saxinger, W. Bihari, Bernard. See Begleiter, Henri. Bird, John M. See Gold, Jon S.

Biswas, Debajit K.; Hartigan, Jennifer A.; Pichler, Mark H.: Identification of DNA sequence responsible for 5-bromodeoxyuridine-induced gene amplification. v225 p941-943 31 Aug 84.

Michel; Courtes, Georges; Malina, Roger; Martin, Chris; Lampton, Michael: Astronomical observations with the FAUST tele-scope. v225 p184-185 13 July 84.

Björklund, Anders. See Gage, Fred H. Black, I. B.; Adler, J. E.; Dreyfus, C. F.; Jonakait, G. M.; Katz, D. M.; LaGamma, E. F.; Markey, K. M.: Neurotransmitter plasticity at the molecular level. v225 p1266–1270 21 Sep 84.

Black, I. B. See Adler, J. E.

Blattner, W. A. See Saxinger, W. Bloom, Arthur L.: review of The Pleistocene. by Tage Nilsson. v225 p307-308 20 July 84

Boat, Thomas. See Stahlman, Mildred

Boella, G. See Andresen, R. D.
Boncy, Madeleine. See Pape, Jean W.
Bonting, S. L. See Bücker, H.
Borgens, Richard B.: Endogenous ionic currents traverse intact and damaged bone. v225 p478-482 3 Aug 84.

Bork, U. See Bücker, H.
Borras, Catherine: AAAS Council meeting,
1984 (AAAS): v225 p387–390 27 July 84.

Bowyer, Stuart. See Bixler, Jay.
Boyd, Carl M. and Wilson, Scott: review of A
Comparative Atlas of Zooplankton, by S.
van der Spoel and R. P. Heyman. v225 p614-615 10 Aug 84.

Boyd, R. N.; Newsom, G. H.; Collins, G. W., II; Wiescher, M.: Resonant nuclear fusion pro cesses and the gamma rays of SS 433. v225 p508-510 3 Aug 84.

V225 p505-510 3 Aug 64.

Praff, E. H. See Kalyanaraman, V. S.

Brandt, U. See von Baumgarten, R.

Brandt, Th. See von Baumgarten, R.

Brandt, Thomas. See Probst, Thomas.

Brennan, Susan. See Yeager, Andrew M.

Briggs, Debra. See Haseltine, William A. See also Sodroski, Joseph.

Brillhart, John: Factoring work (letter). v225

p366 27 July 84. Bringi, V. N.; Seliga, Thomas A.; Aydin, Kultegin: Hail detection with a differential reflec-tivity radar. v225 p1145–1147 14 Sep 84.

Brockes, Jeremy P.: Mitogenic growth factors and nerve dependence of limb regenera-

tion. v225 p1280-1287 21 Sep 84

Broder, Samuel. See Milsuya, Hiroaki. Brodie, E. See Ross, H. Brooks, J. M.; Kennicutt, M. C., II; Fay, R. R.; McDonald, T. J.; Sassen, Roger: Thermo-

genic gas hydrates in the Gulf of Mexico. v225 p409-411 27 July 84. Brown, A. M. See Lux, H. D. Brown, Allan H. and Chapman, David K.:

Circumnutation observed without a significant gravitational force in spaceflight. v225

p230–232 13 July 84.

Bruce, Barry D. See Lebo, Roger V.

Bruce, W. Robert. See Gupta, Indranil.

Brunet, J. B. See Montagnier, L.

Brunner, Paul H. See Giger, Walter.

Brun-Vezinet, Francoise. See Klatzmann, Da-

Bruzek, W. See von Baumgarten, R. Bryan, T. See Steele, P. E. Buéno, L. See Fargeas, M. J.

Buéno, L. See Fargeas, M. J.
Bullock, Theodore H.: Comparative neuroscience holds promise for quiet revolutions. v225 p473–478 3 Aug 84.
Bücker, H. See Horneck, G.

—; Horneck, G.; Facius, R.; Reitz, G.; Schäfer, M.; Schott, J. U.; Beaujean, R.; Enge, W.; Schopper, E.; Heinrich, H.; Beer, J.; Wiegel, B.; Pfohl, R.; François, H.; Portal, G.; Bonting, S. L.; Graul, E. H.; Rüther, W.; Kranz, A. R.; Bork, U.; Koller-Lampert, K.; Kirchheim, B.; Starke, M. E.; Planel, H.; Delpoux, M.: Radiobiological advanced biostack experiment. v225 p222–224 13 July 84. July 84.

Burch, J. L. See Obayashi, Tatsuzo. Burg, Maurice. See Sariban-Sohraby, Sarah. Burke, Robert D.: Pheromonal control of metamorphosis in the Pacific sand dollar, Dendraster excentricus. v225 p442-443 27

Buzas, Martin A. and Culver, Stephen J.: Species duration and evolution: benthic foraminifera on the Atlantic continental margin of North America, v225 p829-830 24 Aug

## C

Cabradilla, C. D. *See* Feorino, P. M. *See also* Kalyanaraman, V. S. Caldwell, John. *See* Jaffe, Walter J. Callaway, Enoch. *See* Russell, Michael. Camerman, A. See Camerman, N. Camerman, N.; Hempel, A.; Camerman, A.; Bimolane: structure determination indicates

Birriolane: structure determination indicates anticancer activity is attributable to ICRF-154. v225 p1165–1166 14 Sep 84. Carey, James R. See Karban, Richard. Carey, William D.: Science finds its voice (editorial). v225 p369 27 July 84. Caron, Marc G. See Strulovici, Berta.

Carr, Bernard: review of Formation and Evolution of Galaxies and Large Structures in the

Universe, edited by J. Audouze and J. Tran Thanh Van. v225 p45–46 6 July 84. Carroll, P. Thomas: review of Chemistry and Modern Society, edited by John Parascandola and James C. Whorton. v225 p306 20 July 84.

Case, James F. See Widder, Edith A. Cassou, R. See Benton, E. V. Castegnaro, M.: Laboratory decontamination (letter). v225 p113 13 July 84. Cerione, Richard A. See Strulovici, Berta Chalermwat, Kashane. See Prezant, Robert

Chamaret, S. See Montagnier, L Changeux, Jean-Pierre; Devillers-Thiéry, Anne; Chemouilli, Phillippe: Acetylcholine receptor: an allosteric protein. v225 p1335— 1345 21 Sep 84.

Chapman, David K. See Brown, Allan H. Chapman, L. J. See Sauter, S. L. Chappell, C. R. See Obayashi, Tatsuzo Chappell, Charles R. and Knott, Karl: The

Spacelab experience: a synopsis. v225 p163–165 1 3 July 84. Charlton, Harry M. See Gibson, Marie J. Chemouilli, Phillippe. See Changeux, Jean-Pierre.

Chen, De-Mao; Collins, James S.; Goldsmith, Timothy H.: The ultraviolet receptor of bird retinas. v225 p337-340 20 July 84.

Cheresh, David A.; Reisfeld, Ralph A.; Varki, Ajit P.: O-Acetylation of disialoganglioside GD<sub>3</sub> by human melanoma cells creates a unique antigenic determinant. v225 p844-

unique antigenic determinant. v225 p844—846 24 Aug 84.
Chermann, J.-C. See Feorino, P. M. See also Kalyanaraman, V. S. See also Montagnier, L. See also Klatzmann, David.
Cheung, Mei-Chi. See Lebo, Roger V.
Chiang, Peter K. See Sarioan-Sohraby, Sarabh

ran.
Ching, Y. C. See Argade, P. V.
Choi, Edmund. See Seidman, Christine E.
La Claire, John W., II. See O'Neil, Rory M.
Clark, J. See Saxinger, W.
Clark, John T.; Smith, Erla R.; Davidson,
Julian M.: Enhancement of sexual motivation in male rats by yohimbine. v225 p847—

849 24 Aug 84. Clark, M. M. See Bakun, W. H. Clark, Michael W. See Henderson, Eric. Clarke, Michael F. See Josephs, Steven F.

Cleary, Patrick. See Spanier, Jonathan G. Cleveland, Cutler J.; Costanza, Robert; Kail,

Cleveland, Cutler J.; Costanza, Hobert; Raii, Charles A. S.; Kaufmann, Robert: Energy and the U.S. economy: a biophysical perspective. v225 p890–897 31 Aug 84. Clifton, K. S. See Mende, S. B. Close, Angela E. See Wendorf, Fred. Cockerham, R. S. See Bakun, W. H. Coggeshall, R. E. See Hulsebosch, C. E. Cogoli, A.; Tschopp, A.; Fuchs-Bislin, P.; Cell sensitivity to gravity. v225 p228-230 13 July 84.

Cohen, Gerald. See Mytilineou, Catherine Cohen, Gerald. See Mytilineou, Catherine.
Cohen, Mitchell L. See Holmberg, Scott D.
Cohen, Patricia Cline: review of American
Medicine and Statistical Thinking, 1800–
1860, by James H. Cassedy. v225 p499–
500 3 Aug 84.
Coligan, John. See Sodroski, Joseph.
Collins, G. W., II. See Boyd, R. N.
Collins, James S. See Chen, De-Mao.
Collins, Steven J.; Kubonishi, Ichiro; Miyoshi,
Isao; Groudine, Mark T.: Altered transcription of the c-abl, oncogene in K-562 and

other chronic myelogenous leukemia cells. v225 p72–74 6 July 84.
Compton, W. Dale. See Horton, Emmett J. Conneally, P. Michael. See Gusella, James

Connor, Valerie M. and Quinn, James F.:

Connor, Valerie M. and Quinn, James F.: Stimulation of food species growth by limpet mucus. v225 p843–844 24 Aug 84.
Cooper, Colin S. See Tainsky, Michael A. Cooper, Edwin L.; Stein, Elizabeth A.; Wright, Richard K.; Ravindranath, M. H.; Wojdani, A.; Yeaton, Robin W.: Soluble lectins (letter). v225 p568 10 Aug 84.
Cooper, Geoffrey M. See Diamond, Alan.
Coopersmith, Robert and Leon, Michael: Enhanced neural response to familiar olfactory.

hanced neural response to familiar olfactory cues. v225 p849-851 24 Aug 84.

cues. v225 p849-851 24 Aug 84.
Corces, Victor. See Guerrero, Isabel.
Cossman, Jeffrey. See Mitsuya, Hiroaki.
Costanza, Robert. See Cleveland, Cutler J.
Cotman, Carl W. and Nieto-Sampedro, Manuel: Cell biology of synaptic plasticity. v225 p1287-1294 21 Sep 84.
Courtès, G.; Viton, M.; Sivan, J. P.; Decher, R.; Gary, A.: Very-wide-field ultraviolet sky survey. v225 p179-180 13 July 84.
Courtès, Georges. See Bixler, Jay.
Cowan, W. Maxwell; Fawcett, James W.; O'Leary, Dennis D. M.; Stanfield, Brent B.: Regressive events in neurogenesis. v225 p1258-1265 21 Sep 84.
Crommelynck, D. and Domingo, V.: Solar irra-

Crommelynck, D. and Domingo, V.: Solar irra-diance observations. v225 p180-181 13

Crookes, R. See Saxinger, W.

Crookes, R. See Saxinger, W.
Csikszentmihalyi, Mihaly: review of The Social
Psychology of Creativity, by Teresa M.
Amabile. v225 p918–919 31 Aug 84.
Culliton, Barbara J. (news and comment):
Cancer board appointees strong in science.
v225 p911 31 Aug 84. Crash development
of AIDS test nears goal. v225 p1128, 1130–
1131 14 Sep 84. Five firms with the right
stuff. v225 p1129 14 Sep 84. Patient sues

UCLA over patent on cell line. v225 p1458 28 Sep 84. Viruses across the sea. v225 p1130 14 Sep 84.

Culver, Stephen J. See Buzas, Martin A. Cummins, Robert W. See Russell, Michael. Cunningham, Bruce A. See Sorkin, Barbara

Curran, J. W. See Feorino, P. M. See also Kalyanaraman, V. S.

Dallos, Peter. See Harris, David M. Damasio, Antonio R. See Hyman, Bradley

Dame, John B.; Williams, Jackie L.; McCutame, John B.; Williams, Jackie L.; McCut-chan, Thomas F.; Weber, James L.; Wirtz, Robert A.; Hockmeyer, Wayne T.; Maloy, W. Lee; Haynes, J. David; Schneider, Imo-gene; Roberts, Donald; Sanders, Greg S.; Reddy, E. Premkumar; Diggs, Carter L.; Miller, Louis H.: Structure of the gene en-coding the immunodominant surface antigen on the sporozoite of the human malaria

gen on the sporozoite of the human malaria parasite *Plasmodium falciparum*. v225 p593–599 10 Aug 84.

Dame, John B. *See* McCutchan, Thomas F. Daniel, M. D. *See* Homma, T. Dark, Kathleen A. *See* Russell, Michael. Dauben, Joseph W.: review of *The Nature of Mathematical Knowledge*, by Philip Kitcher. v225 p825–827 24 Aug 84.

Dauguet, C. *See* Montagnier, L. *See also* Klatzmann, David.

Davidson, Julian M. *See* Clark, John T. Davis. Owen K.: Multiple thermal maxima dur-

Davis, Owen K.: Multiple thermal maxima during the Holocene. v225 p617-619 10 Aug

84.

De Young, David S.: Jets in extragalactic radio sources. v225 p677–682 17 Aug 84.

Dean, A. G. See Saxinger, W.
Dean, Jurrien. See East, lain J.
Dean, Nathan W.: Supercomputer funding (letter). v225 p462 3 Aug 84.

Dean, Walter E. See Anderson, Roger Y.
Decher, R. See Courtès, G.
DeGrado, William. See Persson, Håkan.
Deharveng, Jean Michel. See Bixler, Jay.
Delpoux, M. See Bücker, H.
Dervan, Peter B. See Van Dyke, Michael M.
Desrosiers, R. C. See Homma, T.
D'Eustachio, Peter. See Guerrero, Isabel.
Devillers-Thiéry, Anne. See Changeux, Jean-Pierre.

Pierre.

Devine, Joan M. See Diamond, Alan. Dewey, John F.: review of Geology of Scot-land, edited by G. Y. Craig. v225 p161 13

July 84. Diamond, Alan; Devine, Joan M.; Cooper, Geoffrey M.: Nucleotide sequence of a hu-man *Blym* transforming gene activated in a Burklit's lymphoma. v225 p516–519 3 Aug

o4.
Dichgans, J. See von Baumgarten, R.
Dickey, Jean O. See Rosen, Richard D.
Dickinson, Robert E.: review of *The Global Climate*, edited by John T. Houghton. v225
p1466–1467 28 Sep 84.

p1466—1407 28 Sep 84.

Dickson, David (news and comment): Approval near for European synchrotron. v225 p391–392 27 July 84. EPA seeks unified approach to risk. v225 p152 13 July 84. A European academy of science? v225 p1455 28 Sep 84. France puts Diderot in the limelight. v225 p1132—1133 14 Sep 84. France's new technocrats. v225 p486—487

France's new technocrats. v225 p486–487 3 Aug 84. Test-tube embryology in the dock. v225 p606 10 Aug 84. Uranium shortage turns to glut. v225 p484 3 Aug 84. Diggs, Carter L. See Dame, John B. Dillon, Peter J. See Seip, Hans. Doe, Chris Q. See Goodman, Corey S. Doi, J. See Tepperman, Katherine. Domingo, V. See Crommelynck, D. Donahue, D. J. See Wendorf, Fred. Donovan, Stuart. See Tepperman, Katherine. Dose, K. See Horneck, G. Dreyfus, C. F. See Black, I. B. Driscoll, Charles T. See Johnson, Noye M.

Driscoll, P. See Lipp, H.-P. du Lac, Sascha. See Goodman, Corey S. Duby, Allan D. See Seidman, Christine E. Dunnett, Stephen B. See Gage, Fred H. Durgerian, Sally. See Pintar, John E.

East, Iain J.; Keenan, Andrew M.; Larson, Steven M.; Dean, Jurrien: Scintigraphy of normal mouse ovaries with monoclonal antibodies to ZP-2, the major zona pellucide protein. v225 p938–941 31 Aug 84. Eckner, Robert J. See Miller, A. Dusty. Edelman, Gerald M. See Sorkin, Barbara C. Edgar, S.: review of A Slot Machine, a Proken "est Tube, by S. E. Luria. v225 p47 6 July 84.

6 July 84. Ehrlich, Barbara E.; Finkelstein, Alan; Forte, Michael; Kung, Ching: Voltage-dependent calcium channels from *Paramecium* cilia incorporated into planar lipid bilayers. v225

p427–428 27 July 84. Eisenman, Robert N. See Robinson, Harriet L. Eisenthal, Kenneth B.; Moss, Robert A.; Turro, Nicholas J.: Divalent carbon intermediates

Nicrolas J.: Divalent carbon intermediates: laser photolysis and spectroscopy. v225 p1439–1445 28 Sep 84.

Ejiri, M. See Obayashi, Tatsuzo.
el Hadidi, Nabil. See Wendorf, Fred.
Elbrecht, Alex; Lazier, Catherine B.; Protter, Andrew A.; Williams, David L.: Independent developmental programs for two estrogen-regulated genes. v225 p639-641 10 Aug

Elder, R. C. See Tepperman, Katherine. Ellis, Joan. See Enea, Vincenzo.

Ellis, Joan. See Enea, Vincenzo.
Ellman, David. See Sulzman, Frank M.
Ellman, George. See Russell, Michael.
Ellsworth, W. L. See Bakun, W. H.
Enea, Vincenzo; Ellis, Joan; Zavala, Fidel;
Arnot, David E.; Asavanich, Achara; Masuda, Aoi; Quakyi, Isabella; Nussenzweig,
Ruth S.: DNA cloning of Plasmodium falciparum circumsporozoite gene: amino acid
sequence of repetitive epitope. v225 p628—630 10 Aun 84

630 10 Aug 84. Enge, W. See Beaujean, R. See also Bücker,

H. Enstrom, James E.: Smoking and longevity studies (letter). v225 p878 31 Aug 84. Epple, Dennis and Lave, Lester: Helium policies (letter). v225 p784 24 Aug 84. Essex, Myron. See Homma, T. See also So-

droski, Joseph. Eubanks, T. Marshall. See Rosen, Richard D.

Evans, Affred S.: Seroepidemiology (letter). v225 p671–672 17 Aug 84. Evans, Ronald M. See Miller, A. Dusty. See also Rosenfeld, Michael G. Everett, Donald. See Pickar, David.

Faber, Donald S. See Funch, Paul G. Faber, Donald S. See Funch, Paul G. Facius, R. See Bücker, H. Falconi, B. See Andresen, R. D. Faras, Anthony J. See Watts, Susan L. Fargeas, M. J.; Fioramonti, J.; Buéno, L.; Prostaglandin E<sub>2</sub>: a neuromodulator in the central control of gastrointestinal motility and feeding behavior by calcitonin. v225 p1050–1052 7 Sep 84.

Fawcett, James W. See Cowan, W. Maxwell. Fay B. See Brooks J. M.

 Fawcett, James W. See Cowan, W. Maxwell.
 Fay, R. R. See Brooks, J. M.
 Fay, Richard R.: The goldfish ear codes the axis of acoustic particle motion in three dimensions. v225 p951–954 31 Aug 84.
 Feller, Michael C. See Johnson, Noye M.
 Feorino, P. M.; Kalyanaraman, V. S.; Haverkos, H. W.; Cabradilla, C. D.; Warfield, D. T.; Jaffe, H. W.; Harrison, A. K.; Gottlieb, M.
 S. Goldfinger, D.; Cherman, J.-C. Barré. S.; Goldfinger, D.; Chermann, J.-C.; Barré-Sinoussi, F.; Spira, T. T.; McDougal, J. S.; Curran, J. W.; Montagnier, L.; Murphy, F. A.; Francis, D. P.: Lymphadenopathy associated virus infection of a blood donor-recipient pair with acquired immunodefi-

ciency syndrome. v225 p69-72 6 July 84. Feulner, Richard L.: Larvadex and the EPA (letter). v225 p266 20 July 84. Finer, Richard. See Tepperman, Katherine. Finkelstein, Alan. See Ehrlich, Barbara E. Fioramonti, J. See Fargeas, M. J. Fischer, E. See Beaujean, R Fischmoister, Hellmut. See Kneissl, Albert. Fishbein, D. See Kalyanaraman, V. S. Flanagan, Dennis: Gerard Piel: president-elect of the AAAS (AAAS). v225 p385–387

elect of the AAAS (AAAS). v225 p385–387 27 July 84. Fleagle, Robert G.: NOAA's R&D budget (let-ter). v225 p365, 366 27 July 84. Florkiewicz, R. Z. and Rose, J. K.: A cell line expressing vesicular stomatitis virus glyco-protein fuses at low pH. v225 p721–723 17

Aug 84.
Foland, K. A. See Stuessy, Tod F.
Fomalont, E. B.; Kellermann, K. I.; Wall, J. V.;
Weistrop, D.: A deep 6-centimeter radio source survey. v225 p23–28 6 July 84.
Forno, Lysia S. See Langston, J. William.
Forte, Michael. See Ehrlich, Barbara E.
Frink, C. R. See Krug, E. C.
Fox, Cecil H.: Boiling drinking water (letter).
v225 p1434 28 Sep 84.
Fox. Jeffrey L. (news and comment): Acent

Fox, Cecil H.: Boiling drinking water (letter). v225 p1434 28 Sep 84. Fox, Jeffrey L. (news and comment): Agent Orange: guarded reassurance. v225 p909 31 Aug 84. Congress drafts generous biomedical budgets. v225 p815, 818 24 Aug 84. Dioxin trial pits workers against Monsanto. v225 p295 20 July 84. DuPont stakes out turf for life sciences research. v225 p1457 28 Sep 84. EPA data base in turmoil. v225 p483—485 3 Aug 84. Fight over ag research continues. v225 p151 13 July 84. House and Senate prepare for battle on ag research. v225 p911 31 Aug 84. Is biotechnology research insurable? v225 p1004 7 Sep 84. A new thrust in plant genetics. v225 p1378 21 Sep 84. New York primate lab seeks help from Congress. v225 p488 3 Aug 84. NIH and Hughes Institute form training partnership. v225 p1005 7 Sep 84. NIH seeks training grant increase. v225 p818 24 Aug 84. NIMH faces renewed uncertainties. v225 p148—149 13 July 84. Rejuvenating ARS's showcase. v225 p1377 21 Sep 84. Senate wants Academy to assess medical technology. v225 p489 3 Aug 84. USDA struggles to reform its research. v225 p1376—1378 21 Sep 84. U.S.—Poland exchanges remain uncertaint. v225 p605 10 Aug 84. U.S.—Poland exchanges slow to exchanges remain uncertain. v225 p605 10 exchanges remain uncertain. v225 p605 10
Aug 84. U.S.—Poland exchanges slow to
resume. v225 p816 24 Aug 84. (research
news): The brain's dynamic way of keeping
in touch. v225 p820—821 24 Aug 84.
Frambach, Donaid A. See Newman, Eric A.
François, H. See Bücker, H.
Franceschini, Nicolas. See Wilcox, Michael.
Francis, D. P. See Feorino, P. M. See also
Kalyanaraman, V. S.
Frank A. See Benton, F. V.

Frank, A. See Benton, E. V.

Frank, A. See Benton, E. V.
Frei, Daniel: review of Weapons and Hope, by
Freeman Dyson. v225 p918 31 Aug 84.
Friedman, Stanton T.: Irradiated food (letter).
v225 p566, 568 10 Aug 84.
Friedman, Theodore. See Milier, A. Dusty.
Friesel, Robert. See Maciag, Thomas.
Frink, C. R. See Isaacson, P. J. See also
Krug, E. C.
Fritts, Harold C. See LaMarche, Valmore C.,

Jr., Joseph C. C. See Lien, Yeong-Hau. Fuchs-Bislin, P. See Cogoli, A. Fudenberg, H. Hugh. See Khansari, Nemat. Fuller, Charles A. See Sulzman, Frank M. Fulton, R. J.: review of Glacial Lake Agassiz, edited by James T. Teller and Lee Clayton. v225 p1016–1017 17 Sep 84. Funch, Paul G. and Faber, Donald S.: Measurement of myelin sheath resistances: im-

surement of myelin sheath resistances: im-

plications for axonal conduction and patho-physiology. v225 p538–540 3 Aug 84.
Fuzessery, Zoltan M. and Pollak, George D.: Neural mechanisms of sound localization in an echolocating bat. v225 p725–728 17

Gabriel, E. See Seeman, P.
Gage, Fred H.; Björklund, Anders; Stenevi,
Ulf; Dunnett, Stephen B.; Kelly, Paul A. T.;
Intrahippocampal septal grafts ameliorate
learning impairments in aged rats. v225
p533–536 3 Aug 84.
Gajdusek, D. C. See Merz, P. A.
Galinat, Walton C.: The origin of maize (letter).

v225 p1093-1094 14 Sep 84.
Galison, Peter: review of *The Infancy of Atomic Physics*, by Alex Keller. v225 p307 20 July 84.

Gallagher, John S., III: review of Structure and Evolution of the Magellanic Clouds, edited by Sidney van den Bergh and Klaas S. de

Boer. v225 p827 24 Aug 84.
Gallo, Robert C. See Arya, Suresh K. See also
Saxinger, W. See also Sodroski, Joseph.
Garriott, O. K. See Obayashi, Tatsuzo.

Garriott, O. K. See Obayashi, Tatsuzo.
Garriott, Owen K.; Parker, Robert A. R.; Lichtenberg, Byron K.; Merbold, Ulf: Payload crew members' view of Spacelab operations. v225 p165–167 13 July 84.
Gary, A. See Courtès, G.
Gatto, Gregory J. See Waller, Marshall B.
Gauer, O. H. See Kirsch, K. A.
Gause, Raymond L. See Pan, C. H. T.
Gerola, Humberto and Gomory, Ralph E.:
Computers in science and technology: early

Computers in science and technology: early

Computers in science and technology: early indications. v225 p11–18 6 July 84.

Getchell, J. P. See Kalyanaraman, V. S.
Giaquinta, Robert T. See Gifford, Roger M.
Gibbons, Kerin. See Gusella, James F.
Gibbs, C. J., Jr. See Merz, P. A.
Gibson, Marie J.; Krieger, Dorothy T.; Charlton, Harry M.; Zimmerman, Earl A.; Silverman, Ann-Judith; Perlow, Mark J.: Mating and pregnancy can occur in genetically hypogonadal mice with preoptic area brain grafts. v225 p949–951 31 Aug 84.
Gifford, Roger M.; Thorne, J. H.; Hitz, W. D.; Giaquinta. Robert T.: Crop productivity and

Giaquinta, Robert T.: Crop productivity and photoassimilate partitioning. v225 p801-

808 24 Aug 84

Giger, Walter; Brunner, Paul H.; Schaffner, Christian: 4-Nonylphenol in sewage sludge: accumulation of toxic metabolites from nonionic surfactants. v225 p623-625 10 Aug

Gilbert, Charles: review of Cerebral Cortex, edited by Alan Peters and Edward G. Jones. v225 p613-614 10 Aug 84.

Gille, John C.; Smythe, Charles M.; Heath, Donald F.: Observed ozone response to variations in solar ultraviolet radiation. v225

p315-317 20 July 84.
Gilliam, T. Conrad. See Gusella, James F.
Gillmor, C. Stewart: review of Glimpsing an Invisible Universe, by Richard F. Hirsh.
v225 p1015-1016 7 Sep 84.

Gilmore, J. S. See Tschudy, R. H. Girard, A. See Lemaitre, M.-P.

Givanella, B. C. See Tainsky, Michael A. Gladue, Brian A.; Green, Richard; Hellman, Ronald E.: Neuroendocrine response to es trogen and sexual orientation. v225 p1496-1499 28 Sep 84.

Gluckman, Jean Claude. See Klatzmann, David. See also Montagnier, L.

Vol. See also Wolfagner, L. Goering, J. J. See Sambrotto, R. N. Goetzl, Edward J. See Levine, Jon D. Gold, Jon S.; Bassett, William A.; Weathers, Maura S.; Bird, John M.: Melting of dia-

Maura S.; Bird, John M.: Melting of diamond. v225 p921–922 31 Aug 84.
Goldfinger, D. See Feorino, P. M.
Goldsmith, Timothy H. See Chen, De-Mao.
Goldstein, Menek. See Hökfelt, Tomas.
Gomory, Ralph E. See Gerola, Humberto.
Goodman, Corey S.; Bastiani, Michael J.;
Doe, Chris Q.; du Lac, Sascha; Helfand,
Stephen L.; Kuwada, John Y.; Thomas,
John B.: Cell recognition during neuronal
development. v225 p1271–1279 21 Sep

Gore, Albert, Jr.: Regulation of biotechnology (letter). v225 p6, 8 6 July 84. Gorham, Eville; Martin, Frank B.; Litzau, Jack

T.: Acid rain: ionic correlations in the east-

ern United States, 1980-1981. v225 p407-

409 27 July 84. Gorin, Fredric. See Lebo, Roger V. Gottesfeld, Joel M. See Sutcliffe, J. Gregor. Gottlieb, M. S. See Feorino, P. M.

Gottlleb, M. S. See Feorino, F. M. Gough, Simon, P. See Huang, Dinq-Ding. Goutail, F. See Bertaux, J. L. Goutail, J. P. See Thuillier, G. Grabowski, Paula J. See Padgett, Richard A. Graham, Robert M. See Seidman, Christine E.

Graul, E. H. See Bücker, H. Graybill, Donald A. See LaMarche, Valmore

Green, H. See Quadens, O. Green, Richard. See Gladue, Brian A. Greene, Geoffrey L. See Kasid, Attan. Greengard, Paul. See Nestler, Eric J. Griscelli, Claude. See Klatzmann, David. Groudine, Mark T. See Collins, Steven J. Gruest, J. See Montagnier, L.

Gruest, J. See Montagnier, L.
Guétard, D. See Montagnier, L.
Guerrero, Isabel; Villasante, Alfredo; Corces,
Victor; Pellicer, Angel: Activation of a c-Kras oncogene by somatic mutation in mouse
lymphomas induced by gamma radiation.
v225 p1159–1162 14 Sep 84.

Guerrero, Isabel: Villasante, Alfredo; D'Eustachio, Peter; Pellicer, Angel: Isolation, characterization, and chromosome assignment of mouse N-ras gene from carcinogen-in duced thymic lymphoma. v225 p1041-1043 7 Sep 84

Guo, Hong-Guang. See Mitsuya, Hiroaki. Gupta, Indranil, Suzuki, Kunio; Bruce, W. Robert; Krepinsky, Jiri J.; Yates, Peter: A model study of fecapentaenes: mutagens of

model study of recapentaenes: mutagens of bacterial origin with alkylating properties. v225 p521–523 3 Aug 84.
Gusella, James F.; Tanzi, Rudolph E.; Anderson, Mary Anne; Hobbs, Wendy; Gibbons, Kerin: Raschtchian, Roya; Gilliam, T. Conrad; Wallace, Margaret R.; Wexler, Nancy S.; Conneally, P. Michael: DNA markers for properties of the property of th nervous system disease. v225 p1320–1326 21 Sep 84.

Haber, Edgar. See Seidman, Christine E. Hackerman, Norman: Science is universal the practitioners are not (editorial). v 225

Habrilla Maribus See Naga Rejesh K.

Hahri, Beatrice H. See Arya, Suresh K.

Hakoshima, Toshio. See Wang, Andrew H.-J.

Hall, Charles A. S. See Cleveland, Cutler J.

Hamill, R. W. See Romagnano, M. A.

Hamilla Maribus See Naga Rejesh K. Hamilton, Marilyn S. See Naz, Rajesh K. Hammel, E. F.; Krupka, M. C.; Williamson, K.

D., Jr.: Helium policies (letter). v225 p784,

786 24 Aug 84. Hand, Peter J. See Morrison, Adrian R. Hankin, L. See Isaacson, P. J. Hansen, Joanna L. See McCutchan, Thomas

Hardy, Steven F. See Padgett, Richard A. Hargraves, Robert B. See Moskowitz, Bruce

Harris, David M. and Dallos, Peter: Ontogenetic changes in frequency mapping of a mammalian ear. v225 p741-743 17 Aug 84.

mammaian ear. V225 p/41-/43 1/ Aug 84. Harrison, A. K. See Feorino, P. M. Hartigan, Jennifer A. See Biswas, Debajit K. Haseltine, William A.; Sodroski, Joseph; Pa-tarca, Roberto; Briggs, Debra; Perkins, Dennis; Wong-Staal, Flossie: Structure of 3' terminal region of type II human T lymphotropic virus: evidence for new coding region.

v225 p419–421 27 July 84.

Haseltine, William A. See Olmsted, Robert A. See also Sodroski, Joseph G. Haverkos, H. W. See Feorino, P. M. Hay, Alex E.: Remote acoustic imaging of the

plume from a submarine spring in an arctic fjord. v225 p1154-1156 14 Sep 84. Hayflick, Leonard: Immortality (letter). v225

Hayrick, Leonard. Historically p268 20 July 84. Hayres, J. David. See Dame, John B. Healy, Paul F.; McKillop, Heather I.; Walsh, Bernie: Analysis of obsidian from Moho

Cay, Belize: new evidence on Classic Maya trade routes. v225 p414-417 27 July 84. Heath, Donald F. See Gille, John C. Hebda, Richard J. and Mathewes, Rolf W.:

Heldoa, Hichard J. and Mathewes, Holf W. Holocene history of cedar and Native Indian cultures of the North American Pacific Coast. v225 p711–713 17 Aug 84.

Heilbron, J. L.: review of *Cambridge Physics in the Thirties*, edited by John Hendry. v225

p825 24 Aug 84. Heinrich, H. See Bücker, H. Helfand, Stephen L. See Goodman, Corey S. Hellman, Ronald E. See Gladue, Brian A.

Hellman, Ronald E. See Gladue, Brian A. Hempel, A. See Camerman, N. Henderson, Eric; Oakes, Melanie; Clark, Michael W.; Lake, James A.; Matheson, A. T.; Zillig, W.: A new ribosome structure. v225 p510–512 3 Aug 84.
Henke, R. P. See Benton, E. V.

Henke, R. P. See Benton, E. V. Hennighausen, Lothar. See Persson, Håkan. Herman, Andrea B. See Pintar, John E. Herring, Peter J. See Widder, Edith A. Hersé, M.: Waves in the OH emissive layer. v225 p172–174 13 July 84. Hess, Charles E.: Freedom of inquiry: an endangered species (editorial). v225 p273

20 July 84. Higham, Denise P.; Sadler, Peter J.; Scawen, Michael D.: Cadmium-resistant *Pseudomo-*

Michael D.: Cadmium-resistant Pseudomonas putida synthesizes novel cadmium proteins. v225 p1043–1046 7 Sep 84.

Hillery, Cynthia M. and Narins, Peter M.: Neurophysiological evidence for a traveling wave in the amphibian inner ear. v225 p1037–1039 7 Sep 84.

Hinds, David S. and MacMillen, Richard E.: Energy scaling in marsupials and eutherians. v225 p335–337 20 July 84.

Hinman, C. Wiley: New crops for arid lands. v225 p1445–1448 28 Sep 84.

Hino, Okio: Kitagawa, Tomoyuki; Sugano, Haruo: Bacterial contamination of human tumor samples (letter). v225 p670–671 17

tumor samples (letter). v225 p670-671 17 Aug 84.

Aug 84.

Hirth, Kenneth: Xochicalco: urban growth and state formation in Central Mexico. v225 p579-586 10 Aug 84.

Hitz, W. D. See Gifford, Roger M.

Hobbs, Wendy. See Gusella, James F.

Hoch, Paul K.: review of Cockcroft and the

Hoch, Paul K.: review of Cockcroft and the Atom, by Guy Hartcup and T. E. Allibone. v225 p1465–1466 28 Sep 84.

Hockmeyer, Wayne T. See Dame, John B. Hoffman, Anthony D. See Levy, Juy A. Hoffman, P. F.: reviews of Early Proterozoic Geology of the Great Lakes Region, edited by L. G. Medaris, Jr., and Proterozoic Geology, edited by L. G. Medaris, Jr., C. W. Byers, D. M. Mickelson, and W. C. Shanks. v225 p46–47 6 July 84.

Hoffman, Stanley. See Sorkin, Barbara C. Hogg, John T.: Mating in bighorn sheep: multiple creative male strategies. v225 p526–529 3 Aug 84.

ple creative infairs strategies. V225 p.525 3 Aug 84.

Hoh, M. See Saxinger, W.

Hökfelt, Tomas; Johansson, Olle; Goldstein, Menek: Chemical anatomy of the brain. v225 p1326–1334 21 Sep 84.

Holden, Constance (news, and comment):

Constance (news and comment): loiden, Constance (news and comment):
Academy to propose social science research priorities. v225 p1458–1459 28 Sep
84. Companies move to rescue school science. v225 p1458–1457 28 Sep 84. Computers and the family: more toys than teachers. v225 p1458 28 Sep 84. Baby Doe
compromise imminent. v225 p294–295 20
July 84. Day of reckoning for the Garrison
project. v225 p904–906 31 Aug 84. Envicommentalists produce national economic ronmentalists produce national economic agenda. v225 p150-151 13 July 84. Forenagentia. V225 p130–151 13 July 84. Forentials sic scientists go to Argentina's aid. V225 p397 27 July 84. NIH turns down Illmensee proposal. V225 p36 6 July 84. Omens of doom for nuclear waste tomb. V225 p489 3 Aug 84. Peterson leaving a changed Audubon Society. V225 p1004–1005 7 Sep 84. Population studies age prematurely. V225 p1003 7 Sep 84. Senate authorizes peace academy. V225 p36 6 July 84. Tennessee luring scientists for high-tech development.

v225 p151 13 July 84. Two fertilized eggs stir global furor. v225 p35 6 July 84. U.S.S.R. faces tough decisions on energy. v225 p1459 28 Sep 84. U.S. says free market is key to population policy. v225 p701 17 Aug 84. Will home computers transform schools? v225 p296 20 July 84. World Bank, U.S. at odds on population. v225 p396 27 July 84. Zoos forging new role in science. v225 p147 13 July 84. Holmberg, Scott D.; Wells, Joy G.; Cohen, Mitchell L.: Animal-to-man transmission of antimicrobial-resistant Salmonella: investi-

antimicrobial-resistant Salmonella: investi-

antimicrobial-resistant Salmonella: investigations of U.S. outbreaks, 1971–1983. v225 p833–835 24 Aug 84.

Holzbach, R. Thomas. See Kibe, Akihiro. Homcy, Charles. See Seidman, Christine E. Homick, Jerry L. See Reschke, Millard F. Homma, T.; Kanki, P. J.; King, N. W., Jr.; Hunt, R. D.; O'Connell, M. J.; Letvin, N. L.; Daniel, M. D.; Desrosiers, R. C.; Yang, C. S.; Essex, M.: Lymphoma in macaques: association with virus of human T lymphotronbic family. v225 p216–718. 17 Aug 84

association with virus of human T lympho-trophic family. v225 p716–718 17 Aug 84. Hommer, Daniel. See Pickar, David. Hopkins-Murphy, Sally R. See Mrosovsky, N. Horneck, G.; Bücker, H.; Reitz, G.; Requardt, H.; Dose, K.; Martens, K. D.; Menningmann, H. D.; Weber, P.: Microorganisms in the space environment. v225 p226–228 13 July 84.

Horneck, G. See Bücker, H. Horton, Emmett J. and Compton, W. Dale: Technological trends in automobiles. v225 p587–593 10 Aug 84.
Horvitz, Carol C. See Schemske, Douglas

Horwitz, Barbara: review of Mammalian Thermogenesis, edited by Lucien Girardier and Michael U. Stock. v225 p709-710 17 Aug

84.
Huang, Dinq-Ding; Wang, Wei-Yeh; Gough, Simon, P.; Kannangara, C. Gamini: 8-Aminolevulinic acid-synthesizing enzymes need an RNA molety for activity. v225 p1482-1484 28 Sep 84.
Huff, Karen. See Kasid, Attan.
Hulsebosch, C. E.; Coggeshall, R. E.; Perez-Polo, J. R.: Increased numbers of thoracic densel tool experient rate vives antibodies to

dorsal root axons in rats given antibodies to nerve growth factor. v225 p525-526 3 Aug

Hunt, R. D. See Homma, T Hyman, Bradley T.; Van Hoesen, Gary W.; Damasio, Antonio R.; Barnes, Clifford L.: Alzheimer's disease: cell-specific pathology isolates the hippocampal formation. v225 p1168–1170 14 Sep 84.

## I and J

lliffe, Thomas M.; Wilkens, Horst; Parzefall, Jakob; Williams, Dennis: Marine lava cave

lliffe, Thomas M.; Wilkens, Horst; Parzefall, Jakob; Williams, Dennis: Marine lava cave fauna: composition, biogeography, and origins. v225 p309–311 20 July 84.

Iltis, Hugh H.: The origin of maize (letter). v225 p1094, 1096 14 Sep 84.

Ingsoy, P. See Beghin, C.

Interdisciplinary Panel on Carcinogenicity: Criteria for evidence of chemical carcinogenicity. v225 p682–687 17 Aug 84.

Irwin, Ian. See Langston, J. William.
Isaacson, P. J.; Hankin, L.; Frink, C. R.: Bolling drinking water removes ethylene dibromide (letter). v225 p672 17 Aug 84.

Isahakia, Mohamed. See Naz, Rajesh K.
Issawi, Bahay. See Wendorf, Fred.

Iversen, L. L.: review of Molecular Neurobiology. v225 p1468 28 Sep 84.

Jackall, Robert: review of Morkers at Risk, by Dorothy Nelkin and Michael S. Brown. v225 p708 17 Aug 84.

Jacobson, R. See Saxinger, W.

Jacobson, R. See Saxinger, W.

Jaffe, H. W. See Feorino, P. M. See also Kalyanaraman, V. S.

Jaffe, Walter J.; Berge, Glenn L.; Owen, Tobias; Caldwell, John: Uranus: microwave images. v225 p619–621 10 Aug 84.

Jako, Geza J.: Cancer advisory board (letter).

Jako, Geza J.: Carlos advisor y board v225 p462 3 Aug 84. Jellinger, K. See Seeman, P. Johansson, Olle. See Hökfelt, Tomas. John, Christina. See Littke, Walter. Johnson, Craig R. See Asher, Sanford A. Johnson, Irving S.: Regulation of biotechnolo-gy (letter). v225 p8 6 July 84. Johnson, John P. See Sariban-Sohraby, Sa-

Johnson, Kirk R. and Nelson, C. Hans: Sidescan sonar assessment of gray whale feed-ing in the Bering Sea. v225 p1150-1152 14 Sep 84.

Johnson, Noye M.; Likens, Gene E.; Feller, Michael C.; Driscoll, Charles T.: Acid rain and soil chemistry (letter). v225 p1424– 1425 28 Sep 84.

1425 28 Sep 84.
Johnson, Philip C. See Leach, Carolyn S.
Johnson, Warren D., Jr. See Pape, Jean W.
Johnston, Robert E. See Olmsted, Robert A.
Jolly, Douglas J. See Miller, A. Dusty.
Jonakait, G. M. See Black, I. B.
Jones, S. J. C. See Spanier, Jonathan G.

Jones, S. J. C. See Spanier, Jonainan G. Jordan, Winthrop D.: review of American Science in the Age of Jefferson, by John C. Greene. v225 p159–160 13 July 84. Josephs, Steven F.; Ratner, Lee; Clarke, Michael F.; Westin, Eric H.; Reitz, Marvin S.; Wong-Staal, Flossie: Transforming potential of human c-sis nucleotide sequences encoding platelet-derived growth factor. v225 p636–639 10 Aug 84. Jull, A. J. T. See Wendorf, Fred.

Kaas, Jon H.: review of Neuronal Operations in the Visual Cortex, by Guy A. Orban. v225 p1467–1468 28 Sep 84.

Kázmierczak, Józef: Favositid tabulates: evidence for poriferan affinity. v225 p835–837 24 Aug 84.

Kaldany, Rashad-Rudolf. See Scheller, Richard H.

Kalyanaraman, V. S.; Cabradilla, C. D.; Get-chell, J. P.; Narayanan, R.; Braff, E. H.; Chermann, J.-C.; Barré-Sinoussi, F.; Mon-tagnier, L.; Spira, T. J.; Kaplan, J.; Fishbein, D.; Jaffe, H. W.; Curran, J. W.; Francis, D. P.: Antibodies to the core protein of lymphadenopathy-associated virus (LAV) in patients with AIDS. v225 p321-323 20 July

Kalyanaraman, V. S. See Feorino, P. M. Kan, Yuet Wai. See Lebo, Roger V. Kanki, P. J. See Homma, T. Kannangara, C. Gamini. See Huang, Dinq-

Ding. Kao, Fa-Ten. See Lebo, Roger V Kaplan, J. See Kalyanaraman. V. S. Karban, Richard and Carey, James R.: In-

Karban, Hichard and Carey, James H.: Induced resistance of cotton seedlings to mites. v225 p53–54 6 July 84.

Kascsak, R. Sze Merz, P. A.

Kasid, Attan; Strobl, Jeannine S.; Huff, Karen; Greene, Geoffrey L.; Lippman, Marc E.: A novel nuclear form of estradiol receptor in MCF-7 human breast cancer cells. v225 p1162–1165 14 Sep 84.

p1162–1165 14 Sep 84.
Kass, J. See von Baumgarten, R.
Katz, D. M. See Black, I. B.
Kaufmann, Robert. See Cleveland, Cutler J.
Kawashima, N. See Obayashi, Tatsuzo.
Keenan, Andrew M. See East, lain J.
Kellermann, K. I. See Fomalont, E. B.

Kellermann, K. I. See Fornalont, E. B. Kellis, James T., Jr., and Vickery, Larry E.: Inhibition of human estrogen synthetase (aromatase) by flavones. v225 p1032–1034 7 Sep 84.
Kelly, Paul A. T. See Gage, Fred H. Kenney, Cristina. See Opsahl, William. Kennicutt, M. C., II. See Brooks, J. M. Kerr, Richard A. (research news): Computer models gaining on El Niño. v225 p37–38 6 July 84. Developing a big picture of earth's mantle. v225 p702–703 17 Aug 84. An encouraging long-term quake "forecast." v225 p300–301 20 July 84. First look at the

deepest hole. v225 p1461 28 Sep 84. Magnetic "jerk" gaining wider acceptance. v225 p1135—1136 14 Sep 84. Probing the deep continentr.l crust. v225 p492—494 3 Aug 84. Slow atmospheric oscillations confirmed. v225 p1010—1011 7 Sep 84. Kerszberg, Michel: Crystalline anisotropy (letter). v225 p566 10 Aug 84. Khansari, Nemat; Whitten, H. D.; Fudenberg, H. Hugh: Phencyclidine-induced immunodepression. v225 p76—78 6 July 84. Kibe, Akihiro; Holzbach, R. Thomas; LaRusso, Nicholas F.; Mao, Simon J. T.: Inhibition of cholesterol crystal formation by apolipoproteins in supersaturated model bile. v225 p514—516 3 Aug 84. Kilpatrick, Brian F. See Strulovici, Berta. King, N. W., Jr. See Homma, T. Kirchheim, B. See Bücker, H. Kirk, Mark D. and Wine, Jeffrey J.: Identified interneurons produce both primary afferent depolarization and presynaptic inhibition. v225 p854—856 24 Aug 84. Kirkland, J. J. See Schallinger, L. E. Kirsch, K. A.; Röcker, L.; Gauer, O. H.; Krause, R.; Leach, C.; Wicke, H. J.; Landry, R.: Venous pressure in man during weightlessness. v225 p218—219 13 July 84. deepest hole, v225 p1461 28 Sep 84, Mag

R.: Venous pressure in man during weight-

R.: Venous pressure in man during weightlessness. v225 p218–219 13 July 84.

Kissin, Benjamin. See Begleiter, Henri.

Kitagawa, Tomoyuki. See Hino, Okio.

Klatzmann, D. See Montagnier, L.

Klatzmann, David; Barré-Sinoussi, Francoise;

Nugeyre, Marie Thérése; Dauguet, Charles;

Vilmer, Etienne; Griscelli, Claude; Brun-Vezinet, Francoise; Rouzioux, Christine;

Gluckman, Jean Claude; Chermann, JeanClaude; Montagnier, Luc: Selective tropism

of lymphadenopathy associated virus (LAV)

for helper-inducer T lymphocytes. v225

p59–63 6 July 84. p59-63 6 July 84.

p59–63 6 July 84. Klun, Jerome A. See Raina, Ashok K. Knapp, Edward A.: New initiatives at NSF (editorial). v225 p881 31 Aug 84. Kneissl, Albert and Fischmeister, Hellmut: So-lidification and Ostwald ripening of near-monotectic zinc-lead alloys. v225 p198–200

13 July 84.
Knight, J. D. See Tschudy, R. H.
Knott, Karl. See Chappell, Charles R. Knowlton, Nancy: review of The Explanation

Knort, Kari. See Chappell, Charles H.
Knowlton, Nancy: review of The Explanation
of Organic Diversity, by Mark Ridley. v225
p160–161 13 July 84.
Kobusiewicz, Michal. See Wendorf, Fred.
Kockarts, G. See Bertaux, J. L.
Kolata, Gina (research news): The art of learning from experience. v225 p156–158 13
July 84. Does a lack of calcium cause hypertension? v225 p705–706 17 Aug 84.
Esoteric math has practical result. v225
p494–495 3 Aug 84. A fast way to solve hard problems. v225 p1379–1380 21 Sep
84. Steroid hormone systems found in yeast. v225 p313–914 31 Aug 84. Studying learning in the womb. v225 p302–303 20
July 84. Surprise proof of an old conjecture. v225 p1006–1007 7 Sep 84. (news and comment): Mathematicians waking up to reality. v225 p485–486 3 Aug 84. (letter): Immortality. v225 p268 20 July 84.
Kolier-Lampert, K. See Bücker, H.
Konarska, Maria M. See Padgett, Richard A
Kondo, Noriaki and Shibata, Shoji: Calcium source for excitation-contraction ccupling in

source for excitation-contraction coupling in myocardium of nonhibernating and hiber-nating chipmunks. v225 p641-643 10 Aug

Konecny, G.; Reynolds, M.; Schroeder, M.: Mapping from space: the metric camera experiment. v225 p167–169 13 July 84. Koplik, Joel. See Levine, Herbert. Korn, Henri and Mallet, Alain: Transformation

of binomial input by the postsynaptic mem-brane at a central synapse. v225 p1157-

brane at a central synapse. v225 p11 1159 14 Sep 84. Krafczyk, Siegbert. See Probst, Thomas. Kramer, Susan M. See Levy, Jay A. Kranze, A. R. See Bücker, H. Krause, J. See Beaujean, R. Krause, R. See Kirsch, K. A. Kraiver, Thane, See Scheller, Bichard H.

Kreiner, Thane. See Scheller, Richard H.

Krepinsky, Jiri J. See Gupta, Indranil.
Krieger, Dorothy T. See Gibson, Marie J. See also Pintar, John E.
Krug, E. C. and Frink, C. R.: Acid rain and soil chemistry (letter). v225 p1428, 1433, 1434 28 Sep 84.
Krupka, M. C. See Hammel, E. F.
Kubonishi, Ichiro. See Collins, Steven J.
Kudo, I. See Obayashi, Tatsuzo.
Kung, Ching. See Ehrlich, Barbara E.
Kuriki, K. See Obayashi, Tatsuzo.
Kuwada, John Y. See Goodman, Corey S.
Kwiat, Geoffrey. See Levine, Jon D.

Labarca, Rodrigo. See Pickar, David.
Labs, D. See Thuillier, G.
LaGamma, E. F. See Black, I. B.
Lagerweij, Evert; Nelis, Pieter C.; Wiegant,
Victor M.; van Ree, Jan M.: The twitch in
horses: a variant of acupuncture. v225 p1172-1174 14 Sep 84.

Laird, Jo: review of Regional Trends in the Geology of the Appalachian-Caledonian-Hercynian-Mauritanide Orogen, edited by Paul E. Schenk and others. v225 p1017 7

Sep 84.

Lake, James A. See Henderson, Eric.
LaMarche, Valmore C., Jr.; Graybill, Donald
A.; Fritts, Harold C.; Rose, Martin R.: Increasing authorspheric carbon dioxide: tree ring evidence for growth enhancement in natural vegetation. v225 p1019-1021 7 Sep

Lamb, P. See Andresen, R. D.
Lampton, Michael. See Bixler, Jay.
Landis, Jill A. See Levy, Jay A.
Landry, R. See Kirsch, K. A.
Langston, Elizabeth B. See Langston, J. William.

liam.

Langston, J. William; Irwin, Ian; Langston, Elizabeth B.; Forno, Lysia S.: Pargyline prevents MPTP-induced parkinsonism in primates. v225 p1480–1482 28 Sep 84.

Lanzerotti, L. J.: review of Origins of Magnetospheric Physics, by James A. Van Allen. v225 p47–48 6 July 84.

LaRoche, A. Claude. See Pape, Jean W.

Larson, Steven M. See East, Iain J.

LaRusso, Nicholas F. See Kibe, Akihiro.

Latz, Michael I. See Widder, Edith A.

Lau, Wai. See Levine, Jon D.

Lau, Mai. See Levine, Jon D. Laurence, Jeffrey and Mayer, Lloyd: Immuno-regulatory lymphokines of T hybridomas for AIDS patients: constitutive and inducible suppressor factors. v225 p66-69 6 July 84. Laurent, J. See Lemaitre, M.-P.

Laurent, J. See Lemaitre, M.-P.
Lave, Lester. See Epple, Dennis.
Lawson, Robert B.: The graduate curriculum
(editorial). v225 p675 17 Aug 84.
Lazier, Catherine B. See Elbrecht, Alex.
Leach, C. See Kirsch, K. A.
Leach, Carolyn S. and Johnson, Philip C.:
Influence of spaceflight on erythrokinetics in
man. v225 p216–218 13 July 84.
Le Blanc, Oliver H., Jr. See Ward, William J.,
III.

Lebo, Roger V.; Gorin, Fredric; Fletterick, Robert J.; Kao, Fa-Ten; Cheung, Mei-Chi; Bruce, Barry D.; Kan, Yuet Wai: High-resolution chromosome sorting and DNA spotblot analysis assign McArdle's syndrome to chromosome 11. v225 p57–59 6 July 84.

Lebreton, J. P. See Beghin, C. Leder, Philip. See Persson, Håkan. Lee, Tun-Hou. See Sodroski, Joseph Lefkowitz, Robert J. See Strulovici, Berta. Leibowitz, Michael J.: National security and scientific training (letter). v225 p566 10 Aug

C+1. Certail Community (1997) Capter Modern March A.; Lippens, C.; Muller, C.; Vercheval, J.; Ackerman, M.: Sample performance of the grille spectrometer. v225 p171–172 13

Leon, Michael. See Coopersmith, Robert. Lester, John B.: review of The A-Stars, by Sidney C. Wolff. v225 p613 10 Aug 84.

Letvin, N. L. See Homma, T. Levine, Herbert and Koplik, Joel: Crystalline

anisotropy (letter). v225 p566 10 Aug 84.
Levine, Jon D.; Lau, Wai; Kwiat, Geoffrey;
Goetzl, Edward J.: Leukotriene B₄ produces
hyperalgesia that is dependent on polymorphonuclear leukocytes. v225 p743–745 17 Aug 84.

Levine, P. H. See Saxinger, W. Levine, R. See Sauter, S. L.

Levy, Jay A.; Hoffman, Anthony D.; Kramer, Susan M.; Landis, Jill A.; Shimabukuro, Joni M.; Oshiro, Lyndon S.: Isolation of lymphocytopathic retroviruses from San Francisco patients with AIDS. v225 p840-842 24 Aug 84.

Lewin, Roger (research news): Brain enzyme is the target of drug contaminant. v225 p1460–1462 28 Sep 84. The continuing tale of a small worm. v225 p153–156 13 July 84. First mRNA splicing intermediate. V225 p301 20 July 84. How micro-ganisms transport iron. v225 p401-402 27 July 84. Impacts of another kind. v225 p1007 7 Sep 84. Parks: how big is big enough? v225 p611–612 10 Aug 84. (news and comment): Creationism survives in Louisiana legislature. v225 p36 6 July 84. Extinction threatens Australian anthropology. v225 p393-

394 27 July 84. Li, Ting-Kai. See Waller, Marshall B. Liautaud, Bernard. See Pape, Jean W

Lichtenberg, Byron K. See Garriott, Owen K. See also Young, Laurence R. Lien, Yeong-Hau; Stern, Robert; Fu, Joseph C. C.; Siegel, Robert C.: Inhibition of collagen fibril formation in vitro and subsequent cross-linking by glucose. v225 p1489–1491 28 Sep 84.

Likens, Gene E. See Johnson, Noye M.
Lindberg, Ralph D. and Runnells, Donald D.:
Ground water redox reactions: an analysis of equilibrium state applied to Eh measurements and geochemical modeling. v225 p925–927 31 Aug 84.
Lindh, A. G. See Bakun, W. H.

Lindh, A. G. See Bakun, W. H.
Linnoila, Markku. See Pickar, David.
Lipp, H.-P.; Schwegler, H.; Driscoll, P.: Postnatal modification of impocampal circuitry
alters avoidance learning in adult rats. v225
p80–82 6 July 84.
Lippens, C. See Lemaitre, M.-P.
Lippman, Marc E. See Kasid, Attan.
Lisberger, S. G.: The latency of pathways
containing the site of motor learning in the
monkey vestibulo-ocular reflex. v225 p74–
76 6, July 84

76 6 July 84.

Liston, Dane; Patey, Gilles; Rossier, Jean; Verbanck, Paul; Vanderhaeghen, Jean-Jacverbanck, Paul, Vandernaeghen, jean-Jacruses: Processing of proenkephalin is tissue-specific. v225 p734–737 17 Aug 84.
Littke, Walter and John, Christina: Protein single crystal growth under microgravity. v225 p203–204 13 July 84.
Litzau, Jack T. See Gorham, Eville.

Litzau, Jack T. See Gorham, Eville.
Livingston, Katherine: review of Catastrophes and Earth History, edited by W. A. Berggren and John A. Van Couvering. v225 p406 27 July 84. Chemical Ecology of Insects, edited by William J. Bell and Ring T. Cardé. v225 p502 3 Aug 84. The Ecology of Aquatic Insects, edited by Vincent H. Resh and David M. Rosenberg. v225 p502 3 Aug 84. Explorations in the History of Psychology in the United States, edited by Josef Brožek. v225 p615–616 10 Aug 84. Extinctions, edited by Matthew H. Nitecki. v225 p820 31 Aug 84. Island Ecology, edited by Sven-Axel 84. Island Ecology, edited by Sven-Axel Bengtson and Pehr H. Enckell. v225 p406 Bengtson and Pehr H. Enckell. v225 p406
27 July 84. Orders and Families of Recent
Mammals of the World, edited by Sydney
Anderson and J. Knox Jones, Jr. v225 p920
31 Aug 84. Periphyton of Freshwater Ecosystems, edited by Robert G. Wetzel. v225
p502 3 Aug 84. Science in Government, by
J. Ronayne. v225 p615 10 Aug 84. Uncommon Sense, edited by J. Robert Oppenheimer, N. Metropolis, Gian-Carlo Rota, and
David Sharp. v225 p615 10 Aug 84.
Lohmann, G. P. See Malmgren, Björn A.

umeng, Lawrence. See Waller, Marshall B. Lux, H. D. and Brown, A. M.: Single channel

studies on inactivation of calcium currents. v225 p432–434 27 July 84.
Luyendijk, T.; Nieswaag, H.; Alsem, W. H. M.: Undirectional solidification of cast iron. v225 p200–202 13 July 84.

## M

Maciag, Thomas; Mehlman, Tevie; Friesel, Robert; Schreiber, Alain B.: Heparin binds endothelial cell growth factor, the principal endothelial cell mitogen in bovine brain. v225 p932–935 31 Aug 84.

Mackenzie, Neil E.; Malthouse, J. Paul G.; Scott, A. I.: Studying enzyme mechanism by 13C pulcar magnetic responses. v225

Scott, A. I.: Studying enzyme mechanism by "3C nuclear magnetic resonance. v225 p883–889 31 Aug 84. MacMillen, Richard E. See Hinds, David S. Madigan, Michael T.: A novel photosynthetic purple bacterium isolated from a Yellowstone hot spring. v225 p313-315 20 July

Maehlum, B. N. See Beghin, C.
 Mahon, Anne C. See Scheller, Richard H.
 Malina, Roger. See Bixler, Jay.
 Mallet, Alain. See Korn, Henri.
 Malmgren, Björn A.; Berggren, W. A.; Lohmann, G. P.: Species formation through

punctuated gradualism in planktonic forami-

punctuated gradualism in planktonic foraminifera. v225 p317–319 20 July 84.
Maloy, W. Lee. See Dame, John B.
Malthouse, J. Paul G. See Mackenzie, Neil E.
Mangelsdorf, Paul C.: The origin of maize (letter). v225 p1094 14 Sep 84.
Manzo, G. See Andresen, R. D.
Mao, Simon J. T. See Kibe, Akihiro.
Mark, Joan: review of Margaret Mead, by Jane
Howard and With a Daughter's Eye, by
Mary Catherine Bateson. v225 p1014–1015
7 Sep 84.

A Sep 84.

Markey, K. M. See Black, I. B.

Markiw, Marie E. See Wolf, Ken.

Marotta, Charles A. See Sajdel-Sulkowska, Elizabeth M.

Marshall, Eliot (news and comment): EPA larsnail, Eilot (news and comment): EPA failed to catch missing data on Larvadex. v225 p295 20 July 84. EPA to repair leaks in leaded gasoline rules. v225 p605 10 Aug 84. Fuel switch may shut some university reactors. v225 p395 27 July 84. House prepares to slash synthetic fuels agency. v225 p604—605 10 Aug 84. Morocco reports lethal radiation accident. v225 p395 27 July 84. lethal radiation accident. v225 p395 27 July 84. Nuclear regulation under new management. v225 p694–696 17 Aug 84. Plus ça change at Harvard Public Health? v225 p298–299 20 July 84. A second look at Virginia's accelerator. v225 p699–700 17 Aug 84. The secret recipe of GE's reactor safety study. v225 p294 20 July 84. Senate considers lead gasoline ban. v225 p34–35 6 July 84. Synfuels program gets the knife but not the ax. v225 p816 24 Aug 84. Latens K. D. See Horneck G.

Martens, K. D. See Horneck, G. Martin, Chris. See Bixler, Jay. Martin, Frank B. See Gorham, Eville. Martin, M. A. See Steele, P. E.

Marx, Jean L. (research news): Caenorhabditis elegans: getting to know you. v225 p40-42 6 July 84. Diabetes—a possible autoimmune disease. v225 p1381-1383 21 Sep 84. How the HTLV's might cause cancer. v225 p398-399 27 July 84. Human malarial gene cloned. v225 p607-608 10 Aug 84. New ways to "mutate" genes. v225 p819 24 Aug 84. The other T-cell receptor gene. v225 p155 13 July 84. Viruses yield clues to gene regulation. v225 p1008-1009 7 Sep 84. Marx, Jean L. (research news): Caenorhabdi-

84.
Masuda, Aoi. See Enea, Vincenzo.
Matheson, A. T. See Henderson, Eric.
Mathewes, Rolf W. See Hebda, Richard J.
Mathurin, Jean-Robert. See Pape, Jean W.
Matsch, Charles L.: review of Glacial-Marine
Sedimentation, edited by Bruce F. Molnia.
v225 p404–405 27 July 84.
Matson, Pamela A. See Vitousek, Peter M.

Matthews, C. G. See Sauter, S. L. Maugh, Thomas H., II (research news): A look at the surface of platinum. v225 p399 27 July 84. A new route to intermetallics. v225 July 84. A new route to intermetallics. V225 p403 27 July 84. New tool for amino acid analysis. V225 p42 6 July 84. Stereochemistry in a new light. V225 p915–916 31 Aug 84.

Maxson, Linda R. and Roberts, J. Dale: Albumin and Australian frogs: molecular data a

min and Australian frogs: molecular data a challenge to speciation model. v225 p957—958 31 Aug 84.

Mayer, Licyd. See Laurence, Jeffrey.
Mazumdar, Pauline M. H.: review of Alexander Fleming, by Gwyn Macfarlane. v225 p1140 14 Sep 84.

McArdle, John E.: Animal rights movement (letter). v225 p114, 116 13 July 84.

McBride, William J. See Waller, Marshall B.

McCarthy, Martin: review of Surveys of the Southern Galaxy, edited by W. B. Burton and F. P. Israel. v225 p500 3 Aug 84.

McCutchan, Thomas F.; Dame, John B.; Miller, Louis H.; Barmwell, John: Evolution ary relatedness of Plasmodium species as determined by the structure of DNA. v225 determined by the structure of DNA. v225 p808-811 24 Aug 84. McCutchan, Thomas F.; Hansen, Joanna L.;

Dame, John B.; Mullins, Judith A.: Mung bean nuclease cleaves Plasmodium genomic DNA at sites before and after genes.

mic DNA at sites before and after genes. v225 p625–628 10 Aug 84.
McCutchan, Thomas F. See Dame, John B.
McDonald, T. J. See Brooks, J. M.
McDougal, J. S. See Feorino, P. M.
McHardy, W. J. See Nadeau, P. H.
McKillop, Heather I. See Healy, Paul F.
McRoy, C. P. See Sambrotto, R. N.
Megson, Mary. See Mitsuya, Hiroaki.
Mehlman, Tevie. See Maciag, Thomas.
Mende, S. B.; Swenson, G. R.; Clifton, K. S.:
Atmospheric emissions photometric imag-

Mende, S. B.; Swenson, G. R.; Clifton, K. S.; Atmospheric emissions photometric imaging experiment. v225 p191–193 13 July 84.
Menningmann, H. D. See Horneck, G.
Merbold, Ulf. See Garriott, Owen K.
Merz, P. A.; Rohwer, R. G.; Kascsak, R.;
Wisniewski, H. M.; Somerville, R. A.; Gibbs, C. J., Jr.; Gajdusek, D. C.: Infection-specific
carticle from the unconventional slow virus

C. J., Jr.; Gajousek, D. C.: Infection special control and solve virus diseases. v225 p437–440 27 July 84.
Michau, J. L. See Beghin, C.
Miller, A. Dusty; Eckner, Robert J.; Jolly, Douglas J.; Friedman, Theodore; Vermá, Inder M.: Expression of a retrovirus encoding by the page 14987 in pice v225 p830–832

ing human HPRT in mice. v225 p630–632 10 Aug 84. Miller, A. Dusty; Ong, Estelita S.; Rosenfeld, Michael G.; Verma, Inder M.; Evans, Ronald M.: Infectious and selectable retrovirus conmiller, Infection and selectable retroving con-taining an inducible rat growth hormone minigene. v225 p993–998 7 Sep 84. Miller, Louis H. See Dame, John B. See also McCutchan, Thomas F.

McCutchan, Thomas F.
Miller, Richard J.: review of Brain Peptides,
edited by Dorothy T. Krieger, Michael J.
Brownstein, and Joseph B. Martin. v225
p404 27 July 84.
Milner, Robert J. See Sutcliffe, J. Gregor.
Mitsuya, Hiroaki; Guo, Hong-Guang; Cossman, Jeffrey; Megson, Mary; Reitz, Marvin
S., Jr.; Broder, Samuel: Functional properties of antigen-specific T cells infected by
human Tscell leukemia-lymphoma virus human T-cell leukemia-lymphoma virus (HTLV-I). v225 p1484–1486 28 Sep 84. Miyoshi, Isao. See Collins, Steven J. Mock, Douglas W.: Siblicidal aggression and

Mock, Douglas W.: Siblicidal aggression and resource monopolization in birds. v225 p731–733 17 Aug 84.

Moghissi, J. See Saxinger, W.
Money, Kenneth E. See Young, Laurence R.
Montagnier, L.; Gruest, J.; Chamaret, S.; Dauguet, C.; Axler, C.; Guétard, D.; Nugeyre, M.
T.; Barré-Sinoussi, F.; Chermann, J.-C.; Brunet, J. B.; Klatzmann, D.; Gluckman, J. C.: Adaptation of lymphadenopathy associated virus (LAV) to replication in EBV-transformed B lymphoblastoid cell lines. v225 p63–66 6 July 84. Montagnier, L. See Feorino, P. M. See also Kalyanaraman, V. S.

Montagnier, Luc. See Klatzmann, David. Moore-Ede, Martin C. See Sulzman, Frank M. Morrison, Adrian R. and Hand, Peter J.: The Taub case (letter). v225 p878 31 Aug 84. Morse, S. A.: Cation diffusion in plagioclase

feldspar. v225 p504–505 3 Aug 84. Morton, Alan Q.: review of Otto Hahn and the

Rise of Nuclear Physics, edited by William R. Shea. v225 p1466 28 Sep 84. Moser, Hugo W. See Yeager, Andrew M. Moskowitz, Bruce M. and Hargraves, Robert B.: Magnetic cristobalite (?): a possible new magnetic phase produced by the thermal decomposition of nontronite. v225 p1152– 1154 14 Sep 84.

Moss, Robert A. See Eisenthal, Kenneth B. Mourali, N. See Saxinger, W. Mrosovsky, N.: Hopkins-Murphy, Sally R.; Richardson, James I.: Sex ratio of sea turtles: seasonal changes. v225 p739-741 17

Mueller, Karl F.: Periodic interfacial precipitation in polymer films. v225 p1021-1022, 1027 7 Sep 84.

Mulcahy, Dan and Pascho, Ronald J.: Adsorp-

muicany, Dan and Pascho, Honard J.: Adsorption to fish sperm of vertically transmitted fish viruses. v225 p333–335 20 July 84.
Mulé, James J.; Shu, Suyu; Schwarz, Susan L.; Rosenberg, Steven A.: Adoptive immunotherapy of established pulmonary metastases with LAK cells and recombinant interleader. leukin-2. v225 p1487-1489 28 Sep 84.

Muller, C. See Lemaitre, M.-P.
Mullins, Judith A. See McCutchan, Thomas F.
Murphy, F. A. See Feorino, P. M.
Mytllineou, Catherine and Cohen, Gerald: 1methyl-4-phenyl -1,2,3,6-tetrahydropyridine

destroys dopamine neurons in explants of rat embryo mesencephalon. v225 p529-531 3 Aug 84.

Nadeau, P. H.; Wilson, M. J.; McHardy, W. J.; Tait, J. M.: Interstratified clays as funda-mental particles. v225 p923–925 31 Aug

Nagatomo, M. See Obayashi, Tatsuzo. Nambu, John R. See Scheller, Richard H. Napolitano, L. G.: Marangoni convection in space microgravity environments. v225 p197–198 13 July 84.

Nappi, Anthony J. and Silvers, Michael: Cell surface changes associated with cellular immune reactions in Drosophila. v225

p1166-1168 14 Sep 84.

Narayanan, R. See Kalyanaraman, V. S. Narins, Peter M. See Hillery, Cynthia M. Naz, Rajesh K.; Alexander, Nancy J.; Isaha-kia, Mohamed; Hamilton, Marilyn S.; Monoclonal antibody to a human germ cell membrane glycoprotein that inhibits fertilization. v225 p342-344 20 July 84.

Neckel, H. See Thuillier, G. Nelis, Pieter C. See Lagerweij, Evert. Nelson, C. Hans. See Johnson, Kirk R. Nestler, Eric J.; Walaas, S. Ivar; Greengard, Paul: Neuronal phosphoproteins: physiological and clinical implications. v225 p1357-1364 21 Sep 84.

Newman, Eric A.; Frambach, Donald A.; Odette, Louis L.: Control of extracellular potassium levels by retinal glial cell K\* siphoning. v225 p1174–1175 14 Sep 84. Newsom, G. H. See Boyd, R. N.

Ng, Kin. See Tepperman, Katherine. Nieswaag, H. See Luyendijk, T. Nieto-Sampedro, Manuel. See Cotman, Carl

Ninomiya, K. See Obayashi, Tatsuzo. Nishizuka, Yasutomi: Turnover of inositol phospholipids and signal transduction. v225 p1365-1370 21 Sep 84. Nkrumah, F. K. See Saxinger, W.

Norman, Colin (news and comment): Cohen-Boyer patent finally issued. v225 p1134 14 Sep 84. Congress votes \$19 million for Boston University. v225 p910 31 Aug 84. Congressmen seek halt to plutonium ship-

ment. v225 p701 17 Aug 84. A Department of Science? v225 p1372 21 Sep 84. Elec-tion politics and science policy. v225 p1371-1373 21 Sep 84. Environmental retp137i-1373 21 Sep 84. Environmental retrofit delays L-reactor restart. v225 p488 3 Aug 84. FDA amending regulations to reduce LDso testing. v225 p1005 7 Sep 84. Japan plans to look to the stars from Hawaii. v225 p1005 7 Sep 84. Labs favored over research. v225 p293 20 July 84. NAS study casts doubt on existing EMP protection. v225 p816-817 24 Aug 84. Northwestern seeks a federal lab. v225 p1454 28 Sep 84. OSTP seeks advice on export controls. OSTP seeks advice on export controls. v225 p1131 14 Sep 84. Shuttle gets caught in trade war. v225 p814 24 Aug 84.

Nottebohm, Fernando. See Paton, John A. Nugeyre, M. T. See Montagnier, L. Nugeyre, Marie Thèrése. See Klatzmann, Da-

Nuhfer, Edward B. See Anderson, Roger Y. Nussenzweig, Ruth S. See Enea, Vincenzo.

Oakes, Melanie, See Henderson, Eric. Oakes, Melanie. See Henderson, Eric.
Obayashi, Tatsuzo; Kawashima, N.; Kuriki, K.;
Nagatorno, M.; Ninomiya, K.; Sasaki, S.;
Yanagisawa, M.; Kudo, I.; Ejiri, M.; Roberts,
W. T.; Chappell, C. R.; Reasoner, D. L.;
Burch, J. L.; Taylor, W. L.; Banks, P. M.;
Williamson, P. R.; Garriott, O. K.: Space
experiments with particle accelerators. v225

p195–196 13 July 84.
O'Connell, M. J. See Homma, T.
Odette, Louis L. See Newman, Eric A.
O'Leary, Dennis D. M. See Cowan, W. Maxwell.

Oliver, Thomas. See Stahlman, Mildred.
Olmsted, Robert A.; Baric, Ralph S.; Sawyer,
Barbara A.; Johnston, Robert E.: Sindbis
virus mutants selected for rapid growth in cell culture display attenuated virulence in animals. v225 p424—427 27 July 84.
Oman, Charles M. See Young, Laurence R.
O'Neil, Rory M. and La Claire, John W., II:

Mechanical wounding induces the formation of extensive coated membranes in giant algal cells. v225 p331–333 20 July 84. Ong, Estelita S. See Miller, A. Dusty. Opel, John R.: The open society. v225 p378–

380 27 July 84.

380 27 July 84.

Opsahl, William; Abbott, Ursula; Kenney, Cristina; Rucker, Robert: Scoliosis in chickens: responsiveness of severity and incidence to dietary copper. v225 p440–442 27 July 84. Orth, C. J. See Tschudy, R. H. Oshiro, Lyndon S. See Levy, Jay A. Ostrow, Ronald S. See Watts, Susan L. Owen, Albert J.; Pantazis, Panagiotis; Antoniades, Harry N.: Simian sarcoma virustransformed cells secrete a mitogen identification.

transformed ceils secrete a mitogen identical to platelet-derived growth factor. v225 p54-56 6 July 84.
Owen, Tobias. See Jaffe, Walter J.

## P and Q

Paczyński, Bohdan: Binary stars. v225 p275– 280 20 July 84.

Padgett, Richard A.; Konarska, Maria M.; Gra-bowski, Paula J.; Hardy, Steven F.; Sharp, Phillip A.: Lariat RNA's as intermediates and products in the splicing of messenger RNA precursors. v225 p898–903 31 Aug

Page, Leroy E.: review of *The Great Chain of History*, by Nicolaas A. Rupke. v225 p405–406 27 July 84.

406 27 July 84.
 Painter, Sally: Professional ethics group reviews guidelines for misconduct investigations (AAAS). v225 p1012–1013 7 Sep 84.
 Palumbi, Stephen R.: Tactics of acclimation: morphological changes of sponges in an unpredictable environment. v225 p1478–

1480 28 Sep 84.

Pamphile, Moliere. See Pape, Jean W.

Pan, C. H. T.; Gause, Raymond L.; Whitaker, Ann F.: Tribology experiment in zero gravi-ty. v225 p202–203 13 July 84. Pandol, Stephen J.; Seifert, Hans; Thomas, Marjorie W.; Rivier, Jean; Vale, Wylie: Growth hormone-releasing factor stimu-lates parcreatic enzyme secretion, v225 lates pancreatic enzyme secretion. v225 p326–328 20 July 84. Pantazis, Panagiotis. See Owen, Albert J. Pape, Jean W.; Llautaud, Bernard; Thomas,

Pape, Jean W.; Liautaud, Bernard; Thomas, Franck; Mathurin, Jean-Robert; St. Amand, Marie-Myrtha A.; Boncy, Madeleine; Pean, Vergniaud; Pamphile, Moliere; LaRoche, A. Claude; Johnson, Warren D., Jr.: Haitina and AIDS (letter). v225 p980 7 Sep 84.
 Parker, Robert A. R. See Garriott, Owen K. Parnell, T. A. See Benton, E. V.
 Parrotal, Bruce: review of Empire of Knowledge, by Alexander Vucinich. v225 p917–918 31 Aug 84.
 Parzefall, Liskoh, See lliffe Thomas M.

Parzefall, Jakob. See Iliffe, Thomas M.
Pascho, Ronald J. See Mulcahy, Dan.
Pastiels, R. See Thuillier, G.
Patarca, Roberto. See Haseltine, William A.
See also Sodroski, Joseph.

Patey, Gilles. See Liston, Dane.

Paton, John A. and Nottebohm, Fernando:

ration, John A. and Nottebohm, Fernando:
Neurons generated in the adult brain are
recruited into functional circuits. v225
p1046–1048 7 Sep 84.
Paul, Steven M. See Pickar, David.
Pavelić, Krešimir. See Bajzer, Željko.
Pean, Vergniaud. See Pape, Jean W.
Peeke, Harman V. S. See Russell, Michael.
Pellicer, Angel. See Guerrero, Isabel.
Perez-Polo, J. R. See Hulsebosch. C. E. Perez-Polo, J. R. See Hulsebosch, C. E. Perkins, Dennis. See Haseltine, William A.

See also Sodroski, Joseph.
Perlow, Mark J. See Gibson, Marie J.
Persson, Håkan; Hennighausen, Lothar;
Taub, Rebecca; DeGrado, William; Leder,
Philip: Antibodies to human c-myc oncogene product: evidence of an evolutionarily

gene product: evidence of an evolutionarily conserved protein induced during cell proliferation. v225 p687–693 17 Aug 84.

Persson, Håkan and Leder, Philip: Nuclear localization and DNA binding properties of a protein expressed by human c-myc oncogene. v225 p718–721 17 Aug 84.

Pert, Candance B. See Ruff, Michael R.

Peters, H. A. See Sauter, S. L.

Pfold R. See Rufer, H.

Pfohl, R. See Bücker, H.

Pfohl, R. See Bücker, H.
Phelps, William C. See Watts, Susan L.
Phinney, Robert A.: review of Seismic Wave
Propagation in Stratified Media, by B. L. N.
Kennett. v225 p1142-1143 14 Sep 84.
Pichler, Mark H. See Biswas, Debajit K.
Pickar, David; Labarca, Rodrigo; Linnoila,
Markku; Roy, Alec; Hommer, Daniel; Everett, Donald; Paul, Steven M.: Neurolepticinduced decrease in plasma homovanillic
acid and antipsychotic activity in schizophrenic patients. v225 p954-957 31 Aug
84.

Pilmore, C. L. See Tschudy, R. H. Pintar, John E.; Schachter, Beth S.; Herman, Andrea B.; Durgerian, Sally; Krieger, Dorothy T.; Characterization and localization of proopiomelanocortin messenger RNA in the adult rat testis. v225 p632-634 10 Aug 84.

Planel, H. See Bücker, H. Plous, Scott: Will deterrence survive a nuclear winter? (letter). v225 p268 20 July 84.
Plucknett, Donald L. and Smith, Nigel J. H.:

Networking in international agricultural re-search. v225 p989–993 7 Sep 84.
Pollak, George D. See Fuzessery, Zoltan M.
Popovic, Mikulas. See Arya, Suresh K.
Porjesz, Bernice. See Begleiter, Henri.

Portal, G. See Bücker, H. Posvar, Wesley W.: New horizons for the university (editorial). v225 p1437 28 Sep 34. Prescott, W. H. See Bakun, W. H. Prezant, Robert S. and Chalermwat, Kashane: Flotation of the bivalve Corbicula

fluminea as a means of dispersal. v225

p1491–1493 28 Sep 84.

Probst, Th. See von Baumgarten, R.

Probst, Thomas; Krafczyk, Siegbert; Brandt,
Thomas; Wist, Eugene R.: Interaction between perceived self-motion and object-mo-

tion impairs vehicle guidance. v225 p536-

538 3 Aug 84.
Protter, Andrew A. See Elbrecht, Alex.
Purc, Donald G. and Agardh, Elisabet: Insulinmediated regulation of neuronal maturation.

mediated regulation of neuronal maturation. v225 p1170–1172 14 Sep 84.
Quadens, O. and Green, H.: Eye movements during sleep in weightlessness. v225 p221–222 13 July 84.
Quakyi, Isabella. See Enea, Vincenzo.
Quigley, Gary J. See Wang, Andrew H.-J.
Quinn, James F. See Connor, Valerie M.

## R

Rabinowitch, Victor: U.S.-Polish exchanges (letter). v225 p1093 14 Sep 84. Rabson, A. B. *See* Steele, P. E. Raina, Ashok K. and Klun, Jerome A.: Brain

factor control of sex pheromone production in the female corn earworm moth. v225

p531–533 3 Aug 84.
Rajagopalan, K. V.: review of *The Biology and Chemistry of Active Oxygen*, edited by J. V.
Bannister and W. H. Bannister. v225 p1142

14 Sep 84. 14 Sep 84.
Raschtchian, Roya. See Gusella, James F.
Ratliff, David. See Tepperman, Katherine.
Ratner, Lee. See Josephs, Steven F.
Ravindranath, M. H. See Cooper, Edwin L.
Raymont, J. See Andresen, R. D.
Ros. Sea Andresen, R. D.

Re, S. See Andresen, R. D. Reasoner, D. L. See Obayashi, Tatsuzo. Reddy, E. Premkumar. See Dame, John B. Reem, Gabrielle H. and Yeh, Ning-Hsing: Interleukin 2 regulates expression of its receptor and synthesis of gamma interferon by human T lymphocytes. v225 p429-430 27 July 84.

27 July 84.

Reeves, Barbara J.: review of American Physics in Transition, by Albert E. Moyer. v225 p501–502 3 Aug 84.

Reichardt, Louis F.: Immunological approaches to the nervous system. v225 p1294–1200 21 Sep 84.

1299 21 Sep 84.
Reisfeld, Ralph A. See Cheresh, David A.
Reitz, G. See Bücker, H. See also Horneck, G. Reitz, Marvin S. See Josephs, Steven F. See

Reschke, Millard F.; Anderson, David J.; Homick, Jerry L.: Vestibulospinal reflexes as a function of microgravity. v225 p212–214 13 July 84

July 84.

Rettig, Richard A.: review of The New Politics of Science, by David Dickson. v225 p707–708 17 Aug 84.

Reynolds, G. P. See Seeman, P. Reynolds, M. See Konecny, G. Reynolds, Wanda. See Sutcliffe, J. Gregor. Rich, Alexander. See Wang, Andrew H.-J. Richardson, James I. See Mrosovsky, N. Riederer, P. See Seeman, P. Riedler, Willibald. See Wilhelm, Klaus. Rivier, Jean. See Pandol, Stephen J. Roberts, Donald. See Dame, John B. Roberts, J. Dale. See Maxson, Linda R. Roberts, W. T. See Obayashi, Tatsuzo. Robinson, Arthur L. (research news): CERN finds evidence for top quark. v225 p400 27 July 84. High-power infrared free electron

finds evidence for top quark. v225 p400 27 July 84. High-power infrared free electron lasers. v225 p305 20 July 84. High spatial resolution ion microprobe. v225 p1137–1139 14 Sep 84. Major materials facilities ranked. v225 p704 17 Aug 84. Multiple quantum wells for optical logic. v225 p822–824 24 Aug 84. Precision positronium spectroscopy tests QED. v225 p304–305 20 July 84. 16-Femtosecond pulse from laser is shortest yet. v225 p304 20 July 84. Timing subpicosecond electronic processes. v225 p1463–1464 28 Sep 84. Unexpected zeta particle baffles physicists. v225 p912–913 31 Aug 84.

Robinson, Harriet L. and Eisenman, Robert N.: New findings on the congenital transmission of avian leukosis viruses. v225 p417-

419 27 July 84. Röcker, L. See Kirsch, K. A. Rogers, Carol L.: Help AAAS membership

office stop repetition (AAAS). v225 p1013 7 Sep 84.

Rohwer, R. G. See Merz, P. A. Romagnano, M. A. and Hamill, R. W.: Spinal sympathetic pathyway: an enkephalin lad-der. v225 p737-739 17 Aug 84. Rose, J. K. See Florkiewicz, R. Z. Rose, Martin R. See LaMarche, Valmore C.,

Jr.
Rosen, Craig A. See Sodroski, Joseph G.
Rosen, Richard D.; Salstein, David A.; Eubanks, T. Marshall; Dickey, Jean O.;
Steppe, J. Alan: An El Niño signal in atmospheric angular momentum and earth rotation. v225 p411–414 27 July 84.
Rosenberg, Steven A. See Mulé, James J.
Rosenfeld, Michael G.; Amara, Susan G.;
Evans, Ronald M.: Alternative RNA processino: determining neuronal phenotype.

Roseriteri, Michael G.; Amara, Susan C.; Evans, Ronald M.: Alternative RNA processing: determining neuronal phenotype. V225 p1315–1320 21 Sep 84.
Rosenfeld, Michael G. See Miller, A. Dusty. Ross, H.; Brodie, E.; Benson, A.: Mass discrimination during prolonged weightlessness. V225 p219–221 13 July 84.
Rossi, C. A. See Turell, M. J. Rossier, Jean. See Liston, Dane. Rossignol, P. A. See Turell, M. J. Roth, Phillip M. See Seigneur, Christian. Rousseau, D. L. See Argade, P. V. Rouzioux, Christine. See Klatzmann, David. Rovainen, Carl M.: review of Fish Neurobiology, edited by R. Glenn Northcutt and Roger E. Davis. V225 p614 10 Aug 84.
Rowe, V. See Benton, E. V.
Rowley, Peter T.: Genetic screening: marvel or menace? v225 p138–144 13 July 84.
Roy, Alec. See Pickar, David.

or menace? v225 p138-144 13 Jūly 84.
Roy, Alec. See Pickar, David.
Rucker, Robert. See Opsahi, William.
Ruff, Michael R. and Pert, Candance B.: Small
cell carcinoma of the lung: macrophagespecific antigens suggest hemopoietic stem
cell origin. v225 p1034-1036 7 Sep 84.
Rüther, W. See Bücker, H.
Runnells, Donald D. See Lindberg, Ralph D.
Russell, Michael; Dark, Kathleen A.; Cummins, Robert W.; Ellman, George;
Callaway, Enoch; Peeke, Harman V. S.:
Learned histamine release. v225 p733-734
17 Aug 84.

17 Aug 84. Ruttan, Vernon W.: Government research policy (letter). v225 p266, 268 20 July 84.

## S

Sabel, Bernhard A.; Slavin, Mary D.; Stein, Donald G.: G<sub>M1</sub> ganglioside treatment facilitates behavioral recovery from bilateral brain damage. v225 p340—342 20 July 84. Sadler, Peter J. See Higham, Denise P. Sajdel-Sulkowska, Elizabeth M. and Marotta, Charles A.: Alzheimer's disease brain: alterations in RNA levels and in a ribonuclease-inhibitor complex. v225 p947—949 31 Aug 84

84.
Salahuddin, S. Zaki. See Arya, Suresh K.
Salati, Eneas and Vose, Peter B.: Amazon
Basin: a system in equilibrium. v225 p129–
138 13 July 84.
Salpeter, E. E.: review of The Constants of
Physics, edited by W. H. McCrea and M. J.
Rees. v225 p500–501 3 Aug 84.
Salstein, David A. See Rosen, Richard D.
Sambrotto, R. N.; Goering, J. J.; McRoy, C. P.:
Large yearly production of phytoplankton in
the western Bering Strait. v225 p1147–1150
14 Sep 84. 14 Sep 84.

14 Sep 84.

Sanders, Greg S. See Dame, John B.

Sanders, Roger W. See Stuessy, Tod F.

Santos, George W. See Yeager, Andrew M.

Sariban-Sohraby, Sarah; Burg, Maurice;

Wiesmann, William P.; Chiang, Peter K.;

Johnson, John P.: Methylation increases

sodium transport into A6 apical membrane

vesicles: possible mode of aldosterone action. v225 p745–746 17 Aug 84.

Sasaki, S. See Obayashi, Tatsuzo.

Sassen, Roger. See Brooks, J. M.

Sauter, S. L.; Chapman, L. J.; Peters, H. A.;

Matthews, C. G.; Levine, R.: EDB alterna
tives (letter). v225 p116 13 July 84.

Sawyer, Barbara A. See Olmsted, Robert A. Saxena, Pradeep. See Seigneur, Christian. Saxinger, W.; Blattner, W. A.; Levine, P. H.; Clark, J.; Biggar, R.; Hoh, M.; Moghissi, J.; Jacobs, P.; Wilson, L.; Jacobson, R.; Crookes, R.; Strong, M.; Ansari, A. A.; Dean, A. G.; Nkrumah, F. K.; Mourali, N.; Gallo, R. C.: Human T-cell leukemia virus (HTI V.I) antibodies in Africa v225 a1473. Gallo, R. C.: Human T-cell leukemia virus (HTLV-I) antibodies in Africa. v225 p1473– 1476 28 Sep 84.

Scawen, Michael D. See Higham, Denise P. Schachter, Beth S. See Pintar, John E. Schaefer, Mark. See Scheller, Richard H.

Schaefer, Mark. See Scheller, Richard H. Schaffner, Christian. See Giger, Walter. Schallinger, L. E.; Yau, W. W.; Kirkland, J. J.: Sedimentation field flow fractionation of DNA's. v225 p434–437 27 July 84. Scheller, Richard H.; Kaldany, Rashad-Rudolf; Kreiner, Thane; Mahon, Anne C.; Nambu, John R.; Schaefer, Mark; Taussig, Ronald: Neuropeptides: mediators of behavior in Aplysia. v225 p1300–1308 21 Sep 84.

Schemske, Douglas W. and Horvitz, Carol C .: Variation among floral visitors in pollination ability: a precondition for mutualism specialization. v225 p519-521 3 Aug 84. Scherer, H. See von Baumgarten, R. Schild, Romuald. See Wendorf, Fred.

Schnidt, M. See Beaujean, R.
Schneider, Imogene. See Dame, John B.
Schopper, E. See Benton, E. V. See also
Bücker, H.
Schott, J. U. See Bücker H.
Schramm, Michael and Selinger, Zvi: Mes-

sage transmission: receptor controlled ade nylate cyclase system. v225 p1350-1356 21 Sep 84.

Schreiber, Alain B. See Maciag, Thomas. Schreiber, Elizabeth Anne. See Schreiber, Ralph W.

Schreiber, Ralph W. and Schreiber, Elizabeth Anne: Central Pacific seabirds and the El Niño Southern Oscillation: 1982 to 1983

Nino Southern Oscillation: 1982 to 1983 perspectives. v225 p713–716 17 Aug 84. Schroeder, M. See Konecny, G. Schäfer, M. See Bücker, H. Schwartz, Lawrence M. and Stühmer, Walter: Voltage-dependent sodium channels in an invertebrate striated muscle. v225 p523– 525 3 Aug 84.

Schwarz, Susan L. See Mulé, James J

Schwegler, H. See Lipp, H.-P. Scott, A. I. See Mackenzie, Neil E. Sculley, J. R.: Defense R&D (letter). v225 p266 20 July 84.

Seeman, P.; Ulpian, C.; Bergeron, C.; Riederer, P.; Jellinger, K.; Gabriel, E.; Reynolds, G. P.; Tourtellotte, W. W.: Bimodal distribution of dopamine receptor densities in brains of schizophrenics, v225 p728-731 17 Aug 84.

Seidman, Christine E.; Duby, Allan D.; Choi, Edmund; Graham, Robert M.; Haber, Ed-gar; Homcy, Charles; Smith, John A.; Seid-man, J. G.: The structure of rat preproatrial natriuretic factor as defined by a complementary DNA clone. v225 p324-326 20 July 84.

Seidman, J. G. See Seidman, Christine E. Seifert, Hans. See Pandol, Stephen J. Seigneur, Christian; Saxena, Pradeep; Roth, Philip M.: Computer simulations of the atmospheric chemistry of sulfate and nitrate formation. v225 p1028-1030 7 Sep 84. Seip, Hans M. and Dillon, Peter J.: Acid rain

and soil chemistry (letter). v225 p1425 1426 28 Sep 84.

Seliga, Thomas A. See Bringi, V. N. Selinger, Zvi. See Schramm, Michael. Shakal, A. F. See Bakun, W. H. Shapiro, Harold T.: Is taking sides a good idea for universities? (editorial). v225 p9 6 July

Sharp, Phillip A. See Padgett, Richard A. Shaw, George M. See Arya, Suresh K. Shibata, Shoji. See Kondo, Noriaki. Shimabukuro, Joni M. See Levy, Jay A. Shu, Suyu. See Mulé, James J. Shuttleworth, Trevor J. and Thorndyke, Mishall Ch. Appard Acceptage 1997. chael C.: An endogenous peptide stimu-

lates secretory activity in the elasmobranch rectal gland. v225 p319–321 20 July 84. Siegel, Robert C. See Lien, Yeong-Hau. Siegmon, G. See Beaujean, R. Silva O., Mario. See Stuessy, Tod F. Silverman, Ann-Judith, See Gibson, Marie J. Silvers, Michael. See Nappi, Anthony J.

Silvers, Michael. See Nappi, Anthony J. Simon, P. C. See Thuillier, G. Sims, M. R. See Andresen, R. D. Sivan, J. P. See Courtès, G. Slavin, Mary D. See Sabel, Bernhard A. Smith, Erla R. See Clark, John T. Smith, John A. See Seidman, Christine E. Smith, Nigel J. H. See Plucknett, Donald L. Smith, Nigel J. H. See Plucknett, Donald L. Smith, P. Leffrey (News and comment). Cri

Smith, R. Jeffrey (news and comment): Crisis management under strain. v225 p907–909 31 Aug 84. A dim future for weapons talks. v225 p601 10 Aug 84. NASA wrestles with new shuttle troubles. v225 p292–294 20 July 84. Nuclear winter attracts additional scrutiny. v225 p30–32 6 July 84. Reagan seeks expansion of Soviet ties. v225 p145– 146 13 July 84. Research council backs competition for shuttle, v225 p1375 21 Sep 84. Shuttle flight scrubbed. v225 p395 27 July 84. Soviets offer little help. v225 p31 6 July 84. Star wars chief takes aim at critics. v225 p600, 602 10 Aug 84. Supreme Court orders pesticide data released. v225 p150 13 July 84.

Smith, Rebecca L. and Oldfield, Eric: Dynamic structure of membranes by deuterium NMR.

v225 p280–288 20 July 84. Smoot, Edith L. and Taylor, Thomas N.: The fine structure of fossil plant ceil walls. v225

p621–623 10 Aug 84.

Smotherman, William P.: Learning in the womb (letter). v225 p1093 14 Sep 84.

Smythe, Charles M. See Gille, John C.

Snyder, Solomon H.: Neurosciences: an integrative discipline. v225 p1255–1257 21 Sep 84.

Sodroski, Joseph; Patarca, Roberto; Perkins, Dennis; Briggs, Debra; Lee, Tun-Hou; Es-sex, Myron; Coligan, John; Wong-Staal, Flossie; Gallo, Robert C.; Haseltine, William A.: Secuence of the envelope glycoprotein gene of type II human T lymphotropic virus. v225 p421-424 27 July 84.

Sodroski, Joseph See Haseltine, William A. Sodroski, Joseph G.; Rosen, Craig A.; Haseltine, William A.: Trans-acting transcriptional

tine, William A.: Trans-acting transcriptional activation of the long terminal repeat of human T lymphotropic viruses in infected cells. v225 p381–385 27 July 84.

Somerville, R. A. See Merz, P. A. Sorkin, Barbara C.; Hoffman, Stanley; Edelman, Gerald M.; Cunningham, Bruce A.: Sulfation and phosphorylation of the neural cell adhesion molecule. N. CAM. v256

surauon and pnosphorylation of the neural cell adhesion molecule, N-CAM. v225 p1476–1478 28 Sep 84.

Souhrada, J. F. See Souhrada, M. Souhrada, M. and Souhrada, J. F.: Immunologically induced alterations of airway smooth muscle cell membrane. v225 p723–725 17 Aug 84.

Spanier, Jonathan G.: Jones S. J. C.: Cleary

Spanier, Jonathan G.; Jones, S. J. C.; Cleary, Patrick: Small DNA deletions creating aviru lence in Streptococcus pyogenes. v225 p935–938 31 Aug 84. Spielman, A. See Turell, M. J.

Spiewak, Irving. See Weinberg, Alvin M. Spira, T. J. See Kalyanaraman, V. S. Spira, T. T. See Feorino, P. M. Spitzer, Lyman, Jr.: Dynamics of globular clusters. v225 p465–472 3 Aug 84. Spudich, P. See Bakun, W. H.

St. Amand, Marie-Myrtha A. See Pape, Jean

Stahlman, Mildred; Boat, Thomas; Oliver, Thomas: Care of high-risk infants (letter). v225 p980 7 Sep 84.

V225 p980 / Sep 84.
Staley, James T.: review of Microbial Geochemistry, edited by W. E. Krumbein. v225 p1141-1142 14 Sep 84.
Stanfield, Brent B. See Cowan, W. Maxwell.
Starke, M. E. See Bücker, H.
Steele, P. E.; Rabson, A. B.; Bryan, T.; Martin,

M. A.: Distinctive termini characterize two families of human endogenous retroviral sequences. v225 p943-947 31 Aug 84. Steen, Lynn Arthur: 1 + 1 = 0: new math for a new age (editorial). v225 p981 7 Sep 84. Stein, Donald G. See Sabel, Bernhard A. Stein, Elizabeth A. See Cooper, Edwin L. Stenevi, Ulf. See Gage, Fred H.

Stenevi, Ulf. See Gage, Fred H.
Steppe, J. Alan. See Rosen, Richard D.
Stern, Robert. See Lien, Yeong-Hau.
Stevens, Charles F.: Biophysical studies of ion channels. v225 p1346–1350 21 Sep 84.
Stillinger, Frank H. and Weber, Thomas A.:
Packing structures and trnsitions in liquids and solids. v225 p983–989 7 Sep 84.
Strobl, Jeannine S. See Kasid, Attan.
Strong, D. F.: review of Metal Deposits in Relation to Plate Tectonics, by F. J. Sawkins. v225 p708–709 17 Aug 84.
Strong, M. See Saxinger, W.
Strulovici, Berta; Cerione, Richard A.; Kilpat-

Strulovici, Berta; Cerione, Richard A.; Kilpatrick, Brian F.; Caron, Marc G.; Lefkowitz, Robert J.: Direct demonstration of impaired

Robert J.: Direct demonstration of impaired functionality of a purified desensitized β-adrenergic receptor in a reconstituted system. v225 p837–840 24 Aug 84.

Stuessy, Tod F.; Foland, K. A.; Sutter, John F.; Sanders, Roger W.; Silva O., Mario: Botanical and geological significance of potassium-argon dates from the Juan Fernández Islands. v225 p49–51 6 July 84.

Stüdemann, Wolfgang. See Wilhelm, Klaus. Stühmer, Walter. See Schwartz, Lawrence M. Sunann, Harus, See Hino Okio.

Sugano, Haruo. See Hino, Okio.
Sulzman, Frank M.; Ellman, David; Fuller,
Charles A.; Moore-Ede, Martin C.;
Wassmer, Gary: Neurospora circadian
rhythms in space: a reexamination of the endogenous-exogenous question. p232-234 13 July 84.

entogentous-exogentous question. Vzzs p232–234 13 July 84.

Sun, Marjorie (news and comment): Acid rain report allegedly suppressed. Vz25 p1374 21 Sep 84. Antibiotics and animal feed: a smoking gun. vz25 p1375 21 Sep 84. Biotechnology's regulatory tangle. vz25 p697–698 17 Aug 84. Comings and goings. vz25 p151 13 July 84. Comings and goings. vz25 p605 10 Aug 84. High court upholds EPA's "bubble" concept. vz25 p150 13 July 84. Hot spots on Honoliulu high-rises. vz25 p36 3 July 84. Hughes Medicai Institute funds Michigan center. vz25 p489 3 Aug 84. NIH bill moving in Congress. vz25 p36 6 July 84. OSHA rule is curbed by budget office. vz25 p603–604 10 Aug 84. OSHA scientists taken to task. vz25 p603 10 Aug 84. Rilkin broadens challenge in biotech. vz25 p297 20 July 84. Static at EPA over broadcast transmitters. vz25 p32–33 d July 84. Suslow, Trevor: Gene-splicing experiment

transmitters. v225 p32–33 6 July 84.
Suslow, Trevor: Gene-splicing experiment (letter). v225 p116 13 July 84.
Sutcliffe, J. Gregor; Milner, Robert J.; Gottesfeld, Joel M.; Reynolds, Wanda: Control of neuronal gene expression. v225 p1308–1315 21 Sep 84.
Sutter, John F. See Stuessy, Tod F. Suzuki, Kunio. See Gupta, Indranil. Swenson, G. R. See Mende, S. B.

Tainsky, Michael A.; Cooper, Colin S.; Giovanella, B. C.; Vande Woude, George F.: An activated ras pene: detected in late but not early passage human PA1 teratocarcinoma cells. v225 p643–645 10 Aug 84. Tait, J. M. See Nadeau, P. H. Tanzi, Rudolph E. See Gusella, James F. Taub, Rebecca. See Persson, Håkan. Taussig, Ronald. See Scheller, Richard H. Taylor, Thomas N. See Smoot, Edith L. Taylor, W. L. See Obayashi, Tatsuzo. Tepperman, Katherine; Finer, Richard; Donovan, Stuart; Elder, R. C.; Doi, J.; Ratliff, David; Ng, Kin: Intestinal uptake and metabolism of auranofin, a new oral gold-based

olism of auranofin, a new oral gold-based antiarthritis drug. v225 p430-432 27 July

Thomas, Franck. See Pape, Jean W.
Thomas, John B. See Goodman, Corey S.
Thomas, Marjorie W. See Pandol, Stephen J.
Thompson, Starley L.: "Nuclear winter" studies (letter). v225 p978 7 Sep 84.

Thorington, Richard W., Jr.: Flying squirrels are monophyletic. v225 p1048-1050 7 Sep

Thorndyke, Michael C. See Shuttleworth, Tre-

Thorne, J. H. See Gifford, Roger M.
Thuillier, G.; Goutail, J. P.; Simon, P. C.;
Pastiels, R.; Labs, D.; Neckel, H.: Measurement of the solar spectral irradiance from
200 to 3000 nanometers. v225 p182–184

13 July 84.
Tiffany, Carol. See Yeager, Andrew M.
Torr, D. G. See Torr, Marsha R.
Torr, Marsha R. and Torr, D. G.: Atmospheric spectral imaging. v225 p169–171 13 July

Tourtellotte, W. W. See Seeman, P. Trivelpiece, Alvin W.: Science and technology awareness month (letter). v225 p113–114

awareness month (letter). v229 p113—114
13 July 84.
Troim, J. See Beghin, C.
Tschopp, A. See Cogoli, A.
Tschudy, R. H.; Pillmore, C. L.; Orth, C. J.;
Gilmore, J. S.; Knight, J. D.: Disruption of
the terrestrial plant ecosystem at the Cretaceous-Tertiary boundary, western interior. v225 p1030-1032 7 Sep 84.

vz25 p1030-1032 7 Sep 84.

Turco, Richard: "Nuclear winter" studies (letter). v225 p978, 980 7 Sep 84.

Turell, M. J.; Rossignol, P. A.; Spielman, A.; Rossi, C. A.; Bailey, C. L.: Enhanced arborizal transmission by mosquitoes that concurrently ingested microfilariae. v225 p1039-1041 7 Sep 84.

Turner, Paul Venable: Campus planning (let-ter). v225 p786 24 Aug 84. Turro, Nicholas J. See Eisenthal, Kenneth B.

### U and V

Ughetto, Giovanni. See Wang, Andrew H.-J. Ulpian, C. See Seeman, P. Vale, Wylie. See Pandol, Stephen J. van Boom, Jacques H. See Wang, Andrew H.van der Marel, Gijs A. See Wang, Andrew H .-

Van Dyke, Michael M. and Dervan, Peter B.: Echinomycin binding sites on DNA. v225 p1122-1127 14 Sep 84.

Van Hoesen, Gary W. See Hyman, Bradley T. van Ree, Jan M. See Lagerweij, Evert. Vande Woude, George F. See Tainsky, Mi-

Vanderhaeghen, Jean-Jacques. See Liston, Dane.

Vandermeer, John H.: Human rights in Central America (letter). V225 p1093 14 Sep 84. Vandiver, Frank E.: Universities: the next iteration? (editorial). v225 p791 24 Aug 84. Varki, Ajit P. See Cheresh, David A.

Varia, Ajit P. See Cheresh, David A. Vaughan, Arthur H.: The magnetic activity of sunlike stars. v225 p793–800 24 Aug 84. Verbanck, Paul. See Liston, Dane. Vercheval, J. See Lemaitre, M.-P. Verma, Inder M. See Miller, A. Dusty. Vickery, Larry E. See Kellis, James T., Jr. Vieville, T. See von Baumgarten, R. Wills, G. See Andrean. R. Villa, G. See Andresen, R. D. Villasante, Alfredo. See Guerrero, Isabel. Vilmer, Etienne. See Klatzmann, David.

Viton, M. See Courtès, G. Vitousek, Peter M. and Matson, Pamela A .: Mechanisms of nitrogen retention in forest ecosystems: a field experiment. v225 p51-

chael A

52 6 July 84. Vogel, H. See von Baumgarten, R vogel, H. See voll Baumgarten, A.; von Baumgarten, R.; Benson, A.; Berthoz, A.; Brandt, Th.; Brand, U.; Bruzek, W.; Dich-gans, J.; Kass, J.; Probst, Th.; Scherer, H.; Vieville, T.; Vogel, H.; Wetzig, J.: Effects of rectilinear acceleration and optokinetic and caloric stimulations in space. v225 p208-

Vose, Peter B. See Salati, Eneas.
Voss, Edward W., Jr.: Prolonged weightlessness and humoral immunity. v225 p214— 215 13 July 84. Vuk-Pavlović, Stanimir. See Bajzer, Željko.

Walaas, S. Ivar. See Nestler, Eric J. Waldrop, M. Mitchell (research news): Artifi-Valdrop, M. Mitchell (research news): Artifi-cial intelligence in parallel. v225 p608–610 10 Aug 84. The Canterbury swarm. v225 p39 6 July 84. Decision near on Galileo asteroid flyby. v225 p1380 21 Sep 84. The intelligence of organizations. v225 p136– 1137 14 Sep 84. Interferometry in space. v225 p38 6 July 84. IRAS. v225 p38–39 6 July 84. The supercollider. I was later. July 84. The supercollider, 1 year later. v225 p490–491 3 Aug 84. (news and comment): OMB jeopardizes U.S.—Soviet satellite accord. v225 p999–1000 7 Sep 84. OTA questions space station. v225 p146 13 July 84. OTA studies U.S.—Soviet space cooper-ation. v225 p1374—1375 21 Sep 84. Scien-tists warm to the Space Station. v225 p1000 7 Sep 84. Space commerce: the quest for coherence. v225 p812-813, 815 24 Aug 84.

conerence. v225 p812–813, 815 24 Aug 84. White House slashes Landsat subsidy. v225 p1373 21 Sep 84. Wall, J. V. See Fornalont, E. B. Wallece, Margaret R. See Gusella, James F. Waller, Marshall B.; McBride, William J.; Gatto, Gregory J.; Lumeng, Lawrence; Li, Ting-Kai: Intragastric self-infusion of ethalologetering and appropriatering and proportering and propor nol by ethanol-preferring and -nonpreferring lines of rats. v225 p78–80 6 July 84. Walsh, Bernie. See Healy, Paul F. Walsh, John (news and comment): China-

U.S. nuclear deal still a puzzle. v225 p29– 30 6 July 84. Details delay resumption of Polish-U.S. exchanges. v225 p1004 7 Sep 84. Exxon builds on basic research. v225 p1001-1003 7 Sep 84. How to succeed in biomedical research. v225 p1134 14 Sep 84. Looking at the debits on R&D tax cred-its. v225 p700-701 17 Aug 84. Nam P. Suh named to head NSF engineering program. v225 p1134 14 Sep 84. New NSF chief asks hard look at budget. v225 p394 27 July 84. Science education law poses problems for NSF. v225 p1453-1455 28 Sep 84. Science NSF. v225 p1453–1455 28 Sep 84. Science panel plans Bush report update. v225 p394–395 27 July 84. Scientists offer to be "good-faith witnesses." v225 p910–911 31 Aug 84. Soviets tighten rules on contacts with foreigners. v225 p817 24 Aug 84. Whaling tensions rise as moratorium approaches. v225 p488–489 3 Aug 84. Wang, Andrew H.-J.; Ughetto, Giovanni; Quigley, Gary J.; Hakoshima, Toshio; van der Marel, Gijs A.; van Boom, Jacques H.; Rich, Alexander: The molecular structure of a DNA-triostin A complex. v225 p1115–1121

DNA-triostin A complex. v225 p1115-1121

Name of the state of the state

Warfield, D. T. *See* Feorino, P. M. Wassmer, Gary. *See* Sulzman, Frank M. Watt, Douglas G. D. *See* Young, Laurence R. Watts, Susan L.; Phelps, William C.; Ostrow, Ronald S.; Zachow, Karen R.; Faras, Anthony J.: Cellular transformation by human papillomavirus DNA in vitro. v225 p634–636 10 Aug 84.

10 Aug 84.
Weathers, Maura S. See Gold, Jon S.
Weber, James L. See Dame, John B.
Weber, P. See Horneck, G.
Weber, Thomas A. See Stillinger, Frank H.
Weeks, W. F. and Weller, G.: Offshore oil in
Alaskan Arctic. v225 p371–378 27 July 84.
Weinberg, Alvin M. and Spiewak, Irving: Administration of the NRC (letter). v225 p672

ministration of the NHC (letter), v225 p672 17 Aug 84.
Weistrop, D. See Fornalont, E. B.
Weller, G. See Weeks, W. F.
Wells, Joy G. See Holmberg, Scott D.
Wendorf, Fred; Schild, Romuald; Close, Angela E.; Donahue, D. J.; Juli, A. J. T.; Zabel, T. H.; Wieckowska, Hanna; Kobusiewicz, Michal; Issawi, Bahay; el Hadidi, Nabil: New radiocarbon dates on the cereals from Wadi Kubhaniya (technical comment). v225 Kubbaniya (technical comment). v225 p645-646 10 Aug 84.

West, Robert: Isoluble compounds containing a silicon-silicon double bond. v225 p1109-1114 14 Sep 84. Westin, Eric H. See Josephs, Steven F.

Westin, Eric H. See Josephs, Steven F.
Wetzig, J. See von Baumgarten, R.
Wexler, Nancy S. See Gusella, James F.
Whinnery, J. R.: review of Masers and Lasers,
by M. Bertolotti. v225 p919–920 31 Aug 84.
Whitaker, Ann F. See Pan, C. H. T.
Whitten, H. D. See Khansari, Nemat.
Wicke, H. J. See Kirsch, K. A.
Widder, Edith A.; Latz, Michael I.; Herring,
Peter J.; Case, James F.: Far red bioluminescence from two deep-sea fishes. v225
p512–514 3 Aug 84.

nescence from two deep-sea fishes. v225 p512–514 3 Aug 84. Wieckowska, Hanna. See Wendorf, Fred. Wiegant, Victor M. See Lagerweij, Evert. Wiegch, B. See Bücker, H. Wiescher, M. See Boyd, R. N. Wiesmann, William P. See Sariban-Sohraby,

Wight, David C. and Beck, Charles B.: Sieve cells in phloem of a Middle Devonian progymnosperm. v225 p1469-1471 28 Sep 84.

Wilcox, Michael and Franceschini, Nicolas: Illumination induces dye incorporation in photoreceptor cells. v225 p851-854 24 Aug

Wilhelm, Klaus; Stüdemann, Wolfgang; Riedler, Willibald: Electron flux intensity distributions observed in response to particle beam emissions. v225 p186-188 13 July

Wilkens, Horst. See lliffe, Thomas M. Williams, David L. See Elbrecht, Alex. Williams, Dennis. See lliffe, Thomas M.

Williams, Dennis. See Iliffe, Thomas M.
Williams, Jackie L. See Dame, John B.
Williams, Sidney B., Jr.: Protection of plant
varieties and parts as intellectual property.
v225 p18–23 6 July 84.
Williamson, K. D., Jr. See Hammel, E. F.
Williamson, P. R. See Obayashi, Tatsuzo.
Wilson, L. See Saxinger, W.
Wilson, M. J. See Nadeau, P. H.
Wilson, Scott. See Boyd, Carl M.
Wine, Jeffrey J. See Kirk, Mark D.
Wirtz, Robert A. See Dame, John B.
Wisniewski, H. M. See Merz, P. A.
Wist, Eugene R. See Probst, Thomas.
Wojdani, A. See Cooper, Edwin L.
Wolf, Ken and Markiw, Marie E.: Biology contravenes taxonomy in the Myxozoa: new
discoveries show alternation of invertebrate
and vertebrate hosts. v225 p1149–1452 28

and vertebrate hosts. v225 p1149-1452 28 Sep 84.

Sep 84. Wolff, Kathryn: Review journal, *Science Books & Films*, approaches milestone (AAAS). v225 p496 3 Aug 84. Wong-Staal, Flossie. *See* Arya, Suresh K. *See also* Haseltine, William A. *See also* Josephs, Steven F. *See also* Sodroski, Jo-

Wrather, Joan: Pacific division meets in San Wrather, Joan: Pacific division meets in San Francisco (AAAS). v225 p497 3 Aug 84. Wright, Richard F.: Acid rain and soil chemistry (letter). v225 p1426, 1428 28 Sep 84. Wright, Richard K. See Cooper, Edwin L. Yanagisawa, M. See Obayashi, Tatsuzo. Yang, C. S. See Homma, T. Yates, Peter. See Gupta, Indranil. Yau, W. W. See Schallinger, L. E. Yeager, Andrew M.; Brennan, Susan; Tiffany, Carol; Moser, Hugo W.; Santos, George W.: Prolonged survival and remyelination after

Prolonged survival and remyelination after hematopoietic cell transplantation in the twitcher mouse. v225 p1052–1054 7 Sep

Yeaton, Robin W. See Cooper, Edwin L. Yeh, Ning-Hsing, See Reem, Gabrielle H. Young, Laurence R.; Oman, Charles M.; Watt, Douglas G. D.; Money, Kenneth E.; Lichtenberg, Byron K.; Spatial orientation in weight-lessness and readentation to Earth's care lessness and readaptation to Earth's gravi-

ty. v225 p205-208 13 July 84.
Zabel, T. H. See Wendorf, Fred.
Zachow, Karen R. See Watts, Susan L.
Zavala, Fidel. See Enea, Vincenzo.
Zillig, W. See Henderson, Eric. Zimmerman, Earl A. See Gibson, Marie J.

